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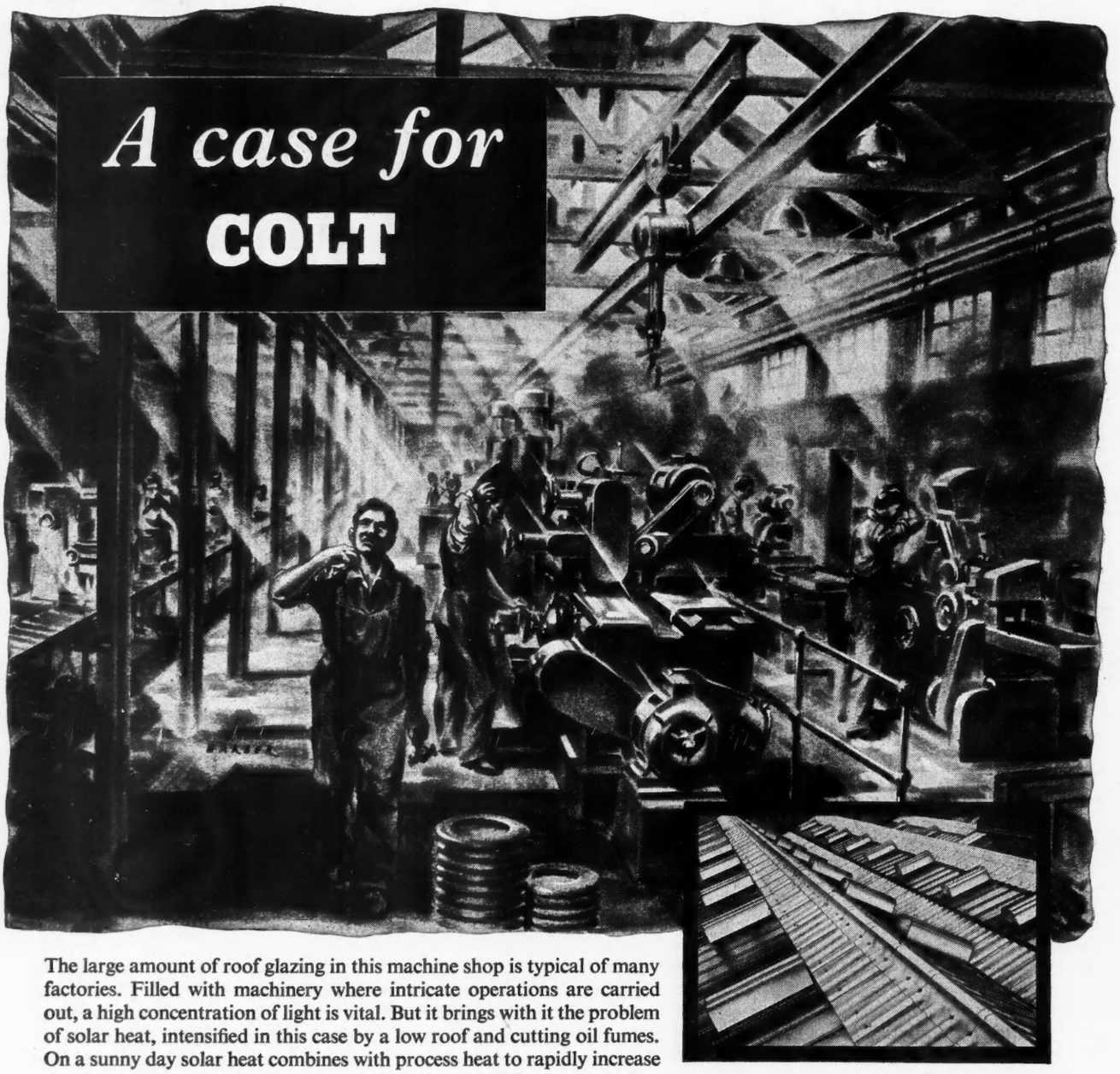

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G.104

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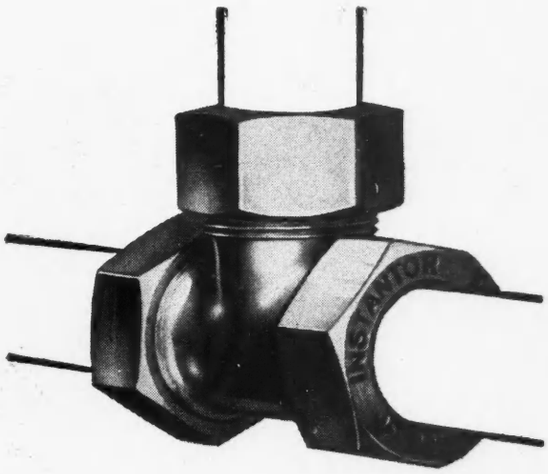
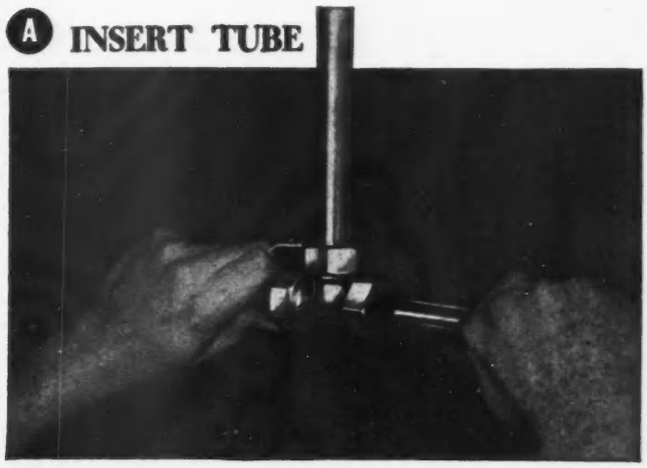
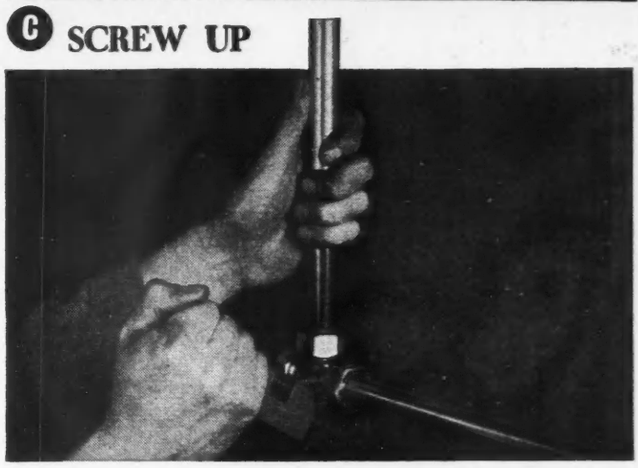


A INSERT TUBE



B TIGHTEN

C SCREW UP



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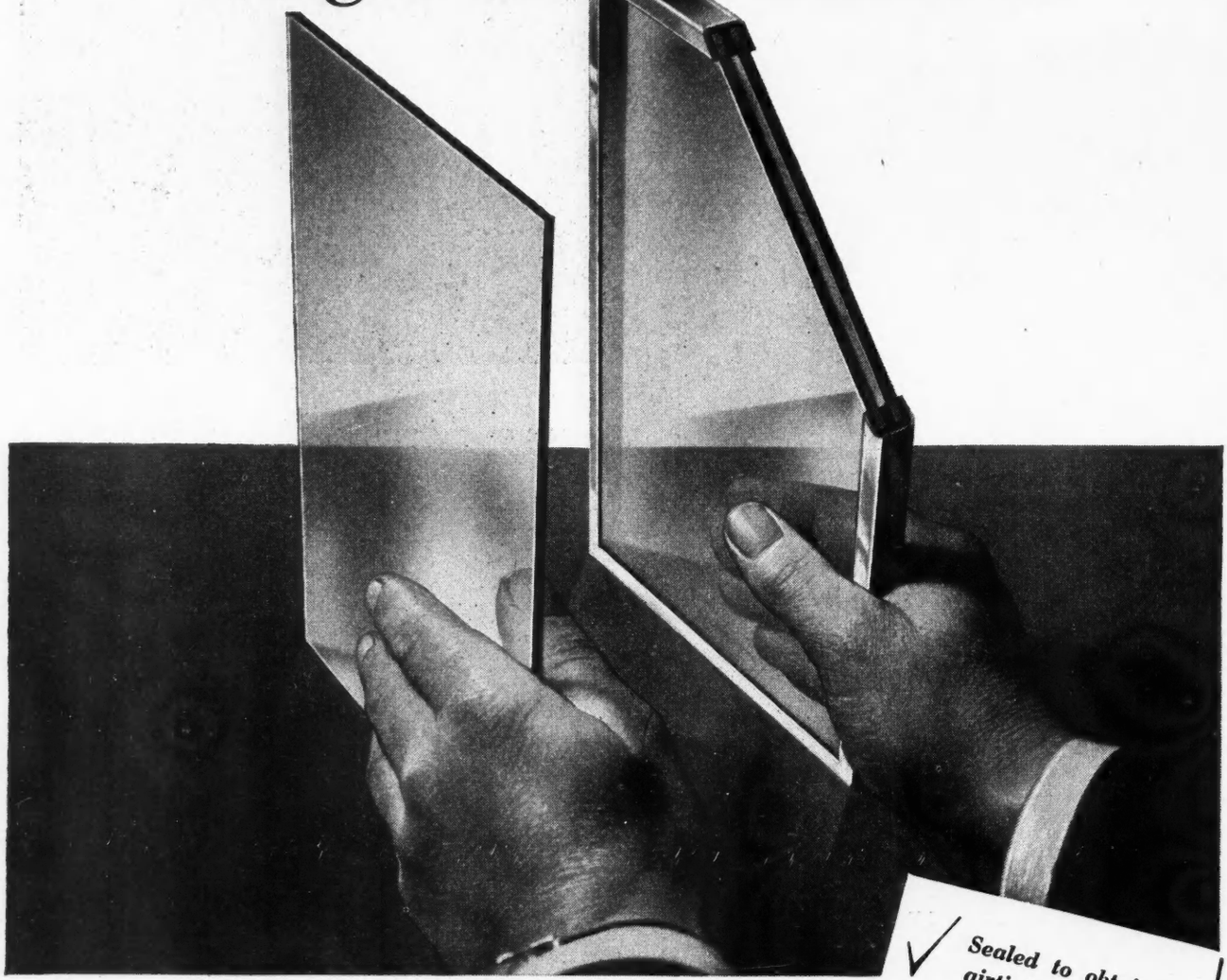

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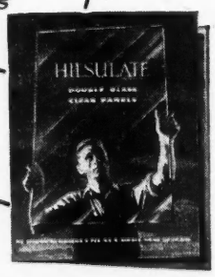

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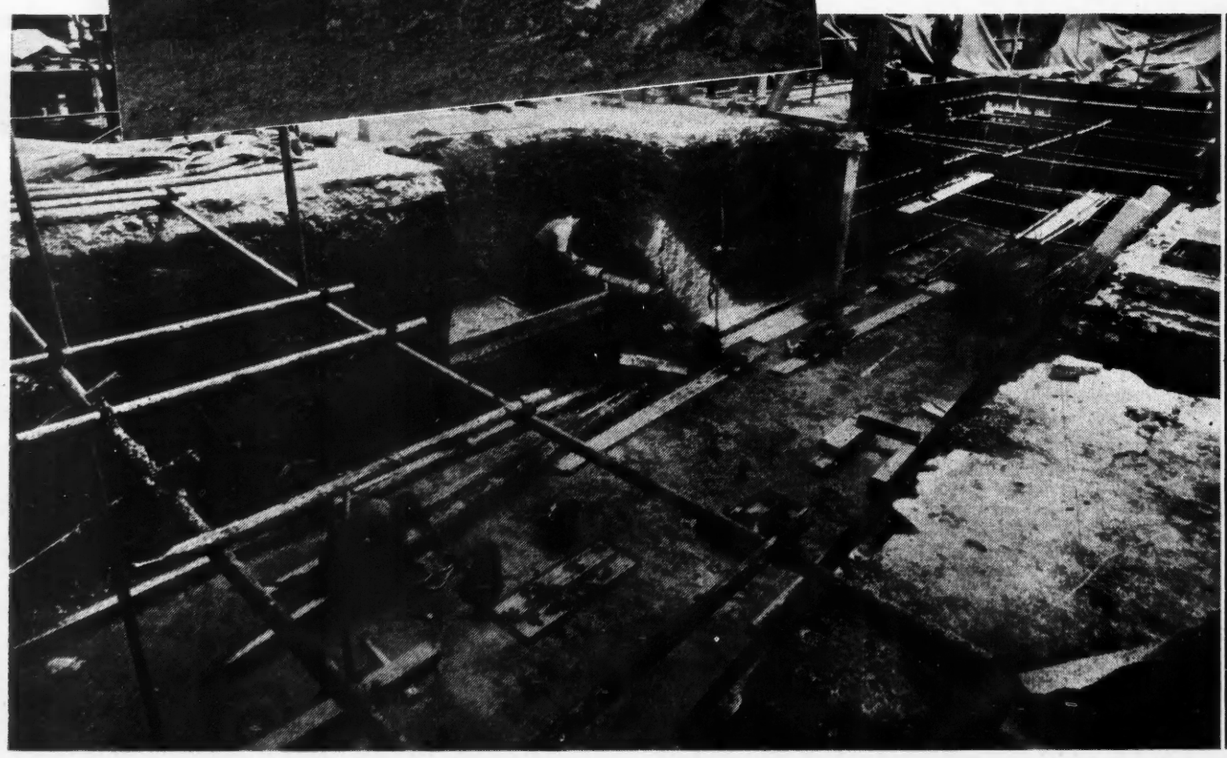

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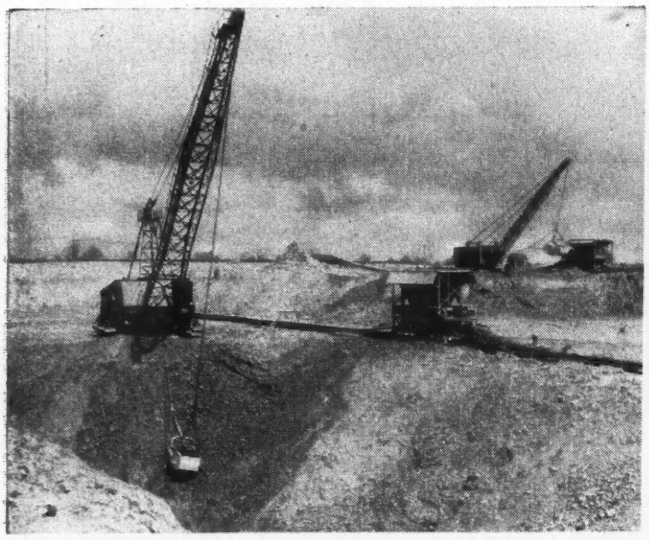

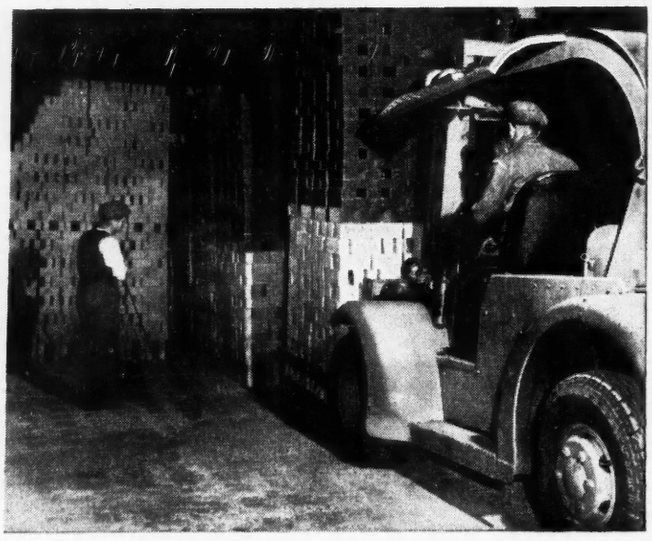

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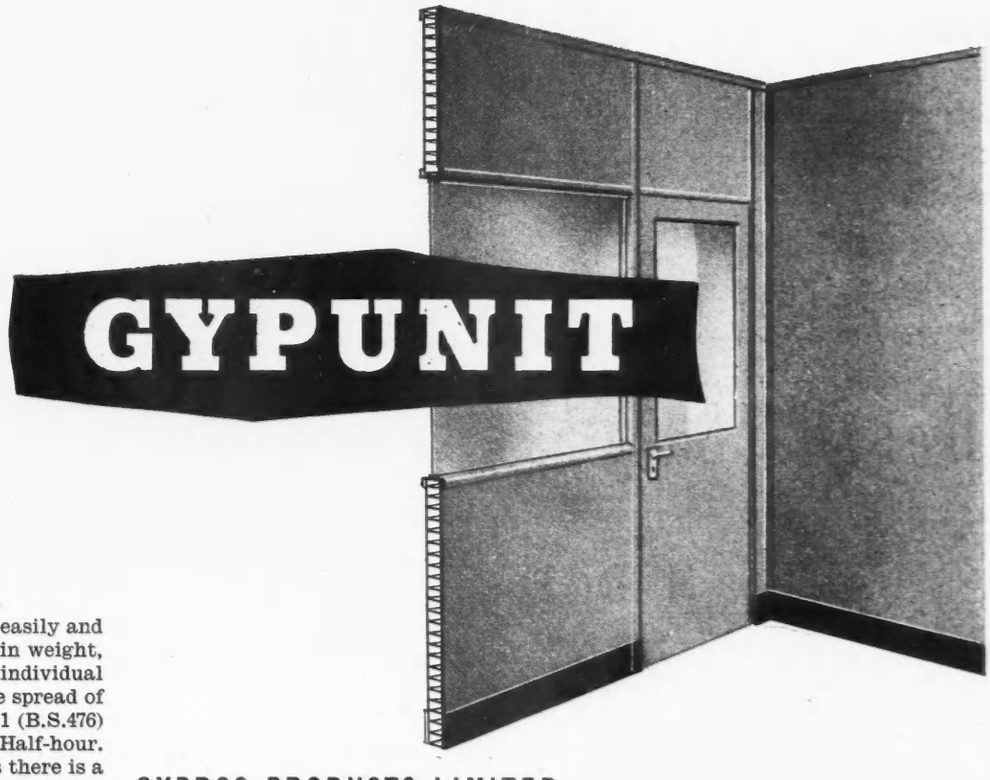

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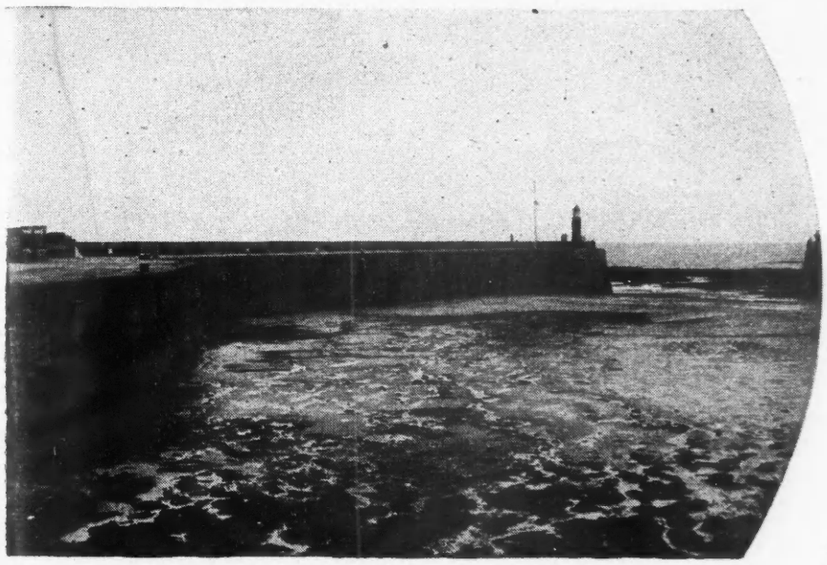

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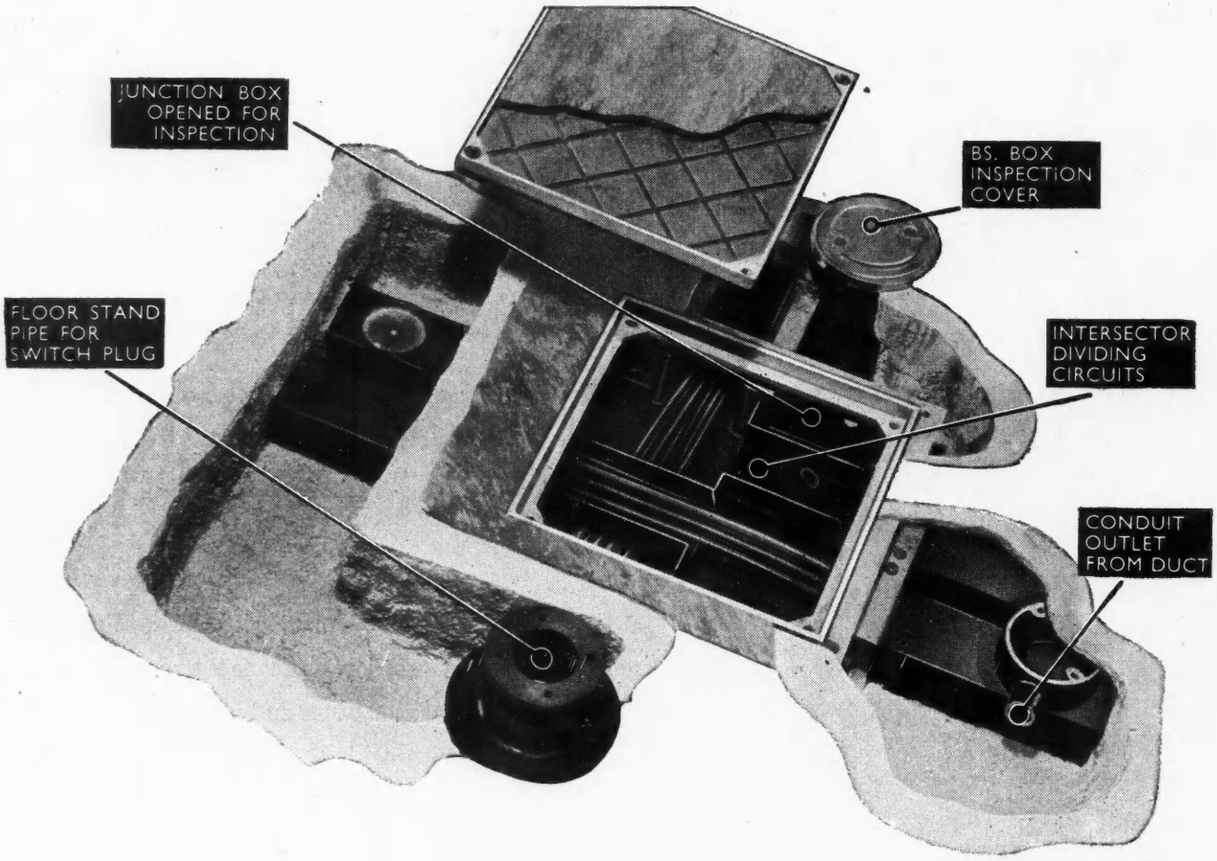

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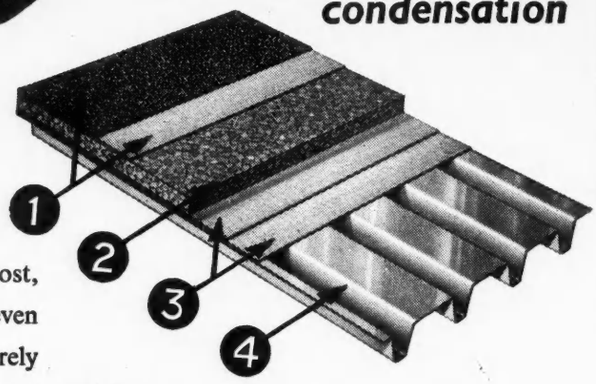

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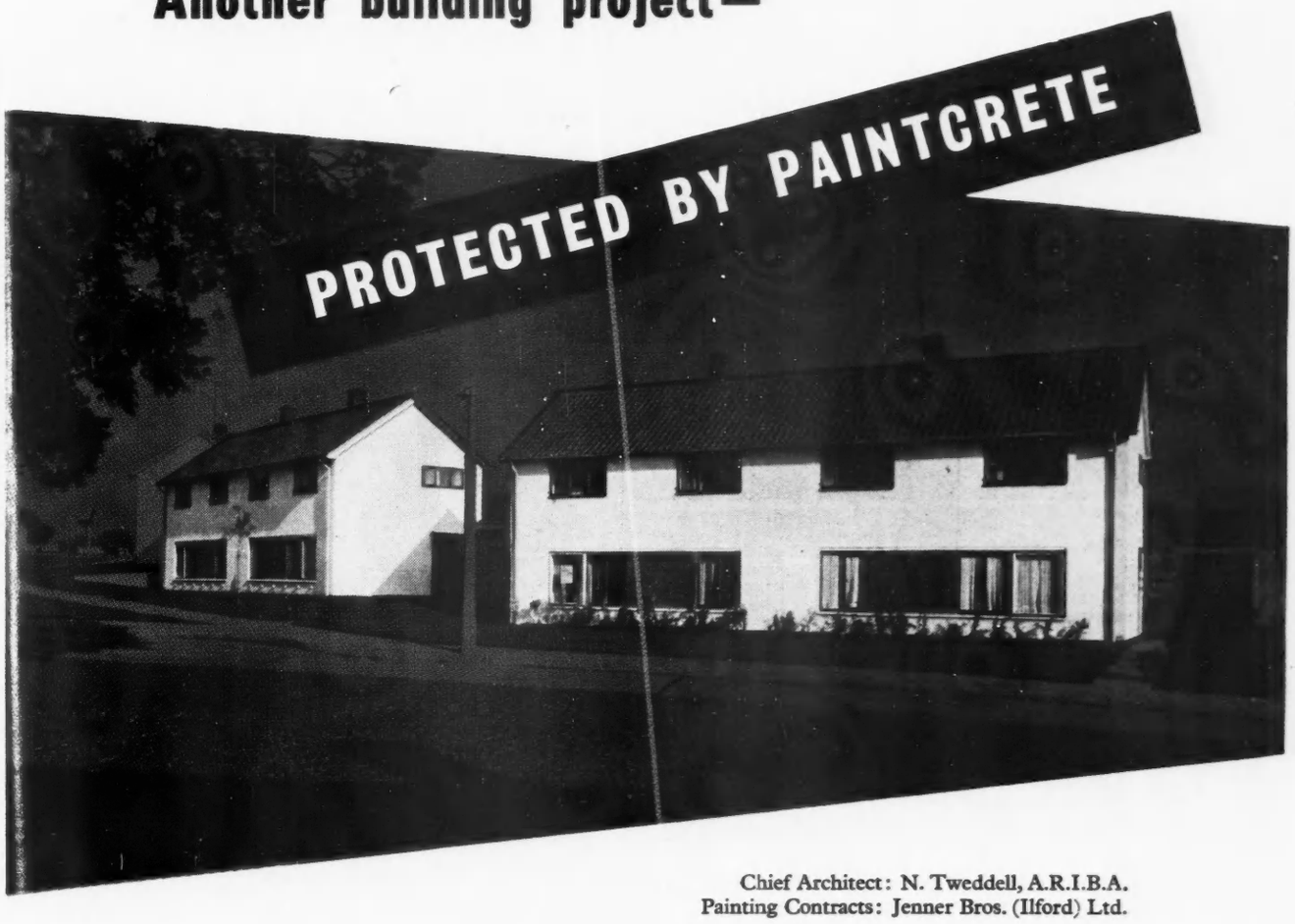

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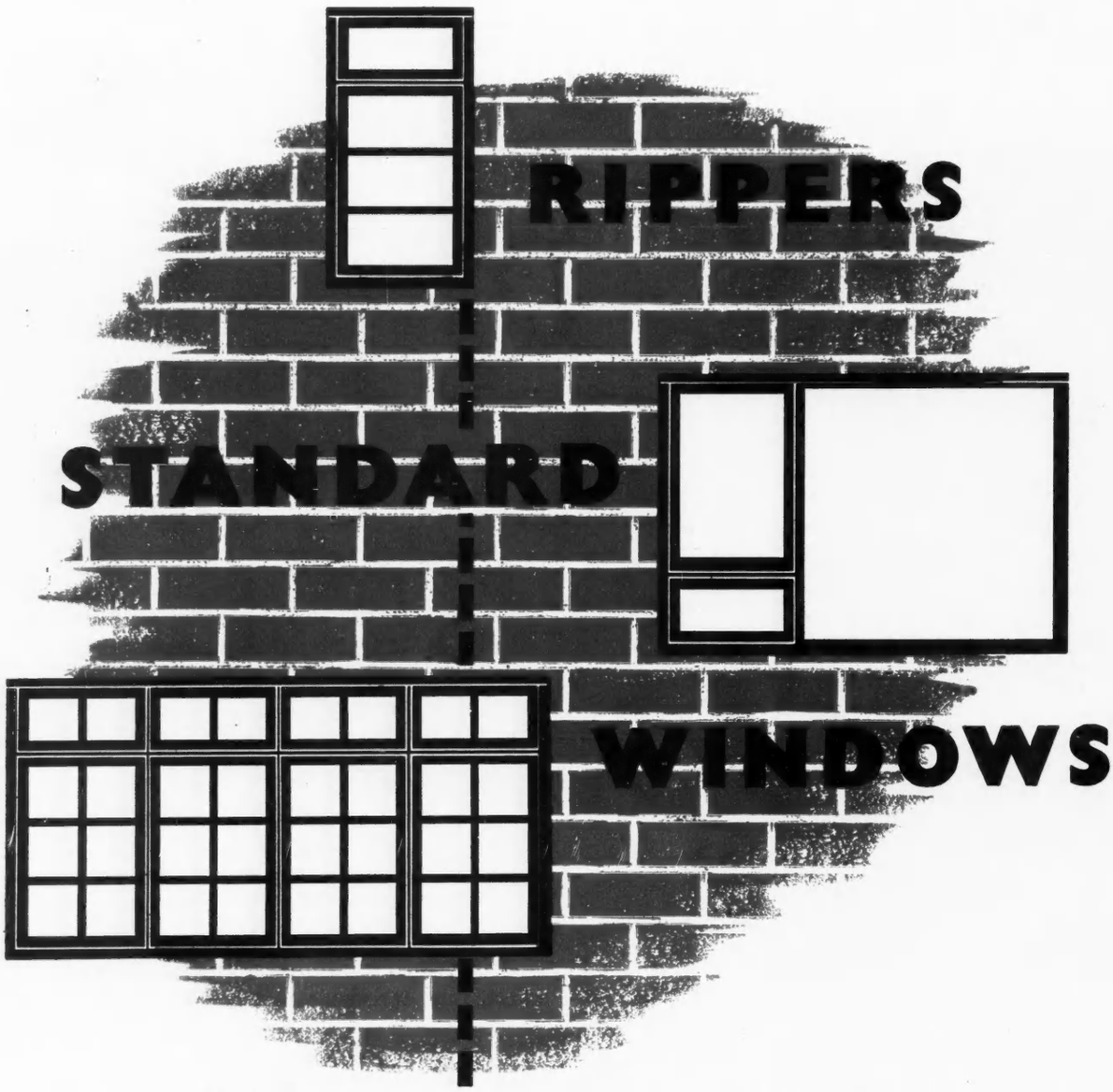

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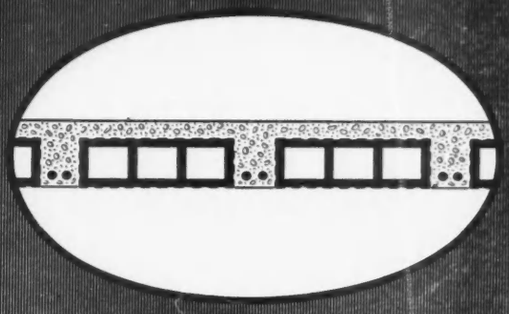

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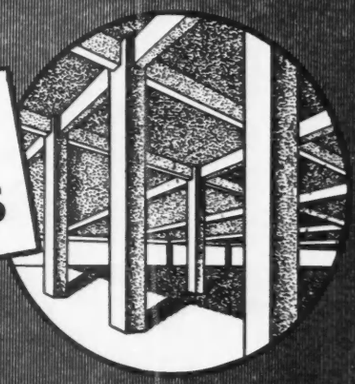

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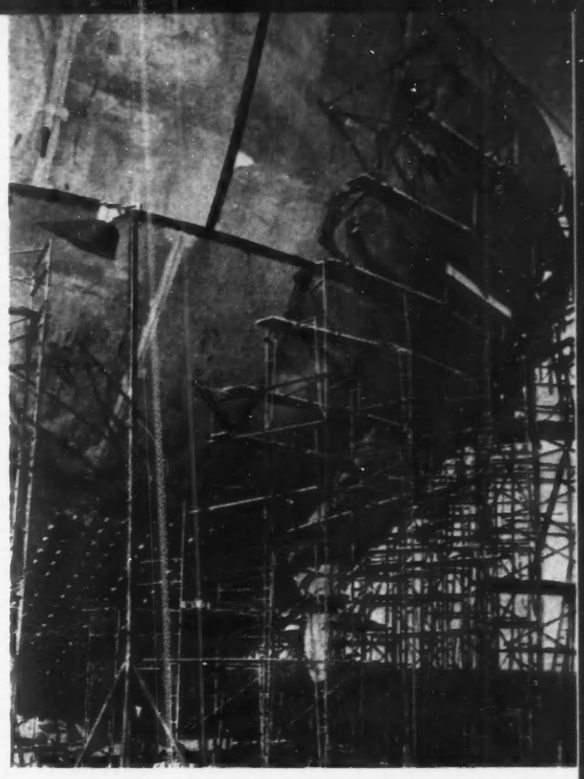
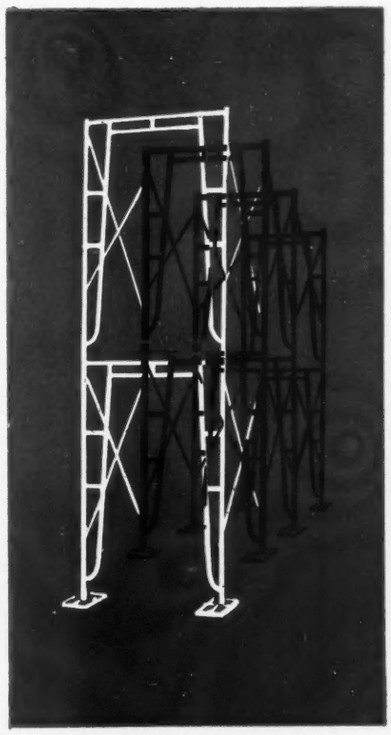


Sterling Safway Scaffolding used in construction of Atomic Energy Sphere, Dounreay.
Contractors: Motherwell Bridge & Engineering Co. Ltd.



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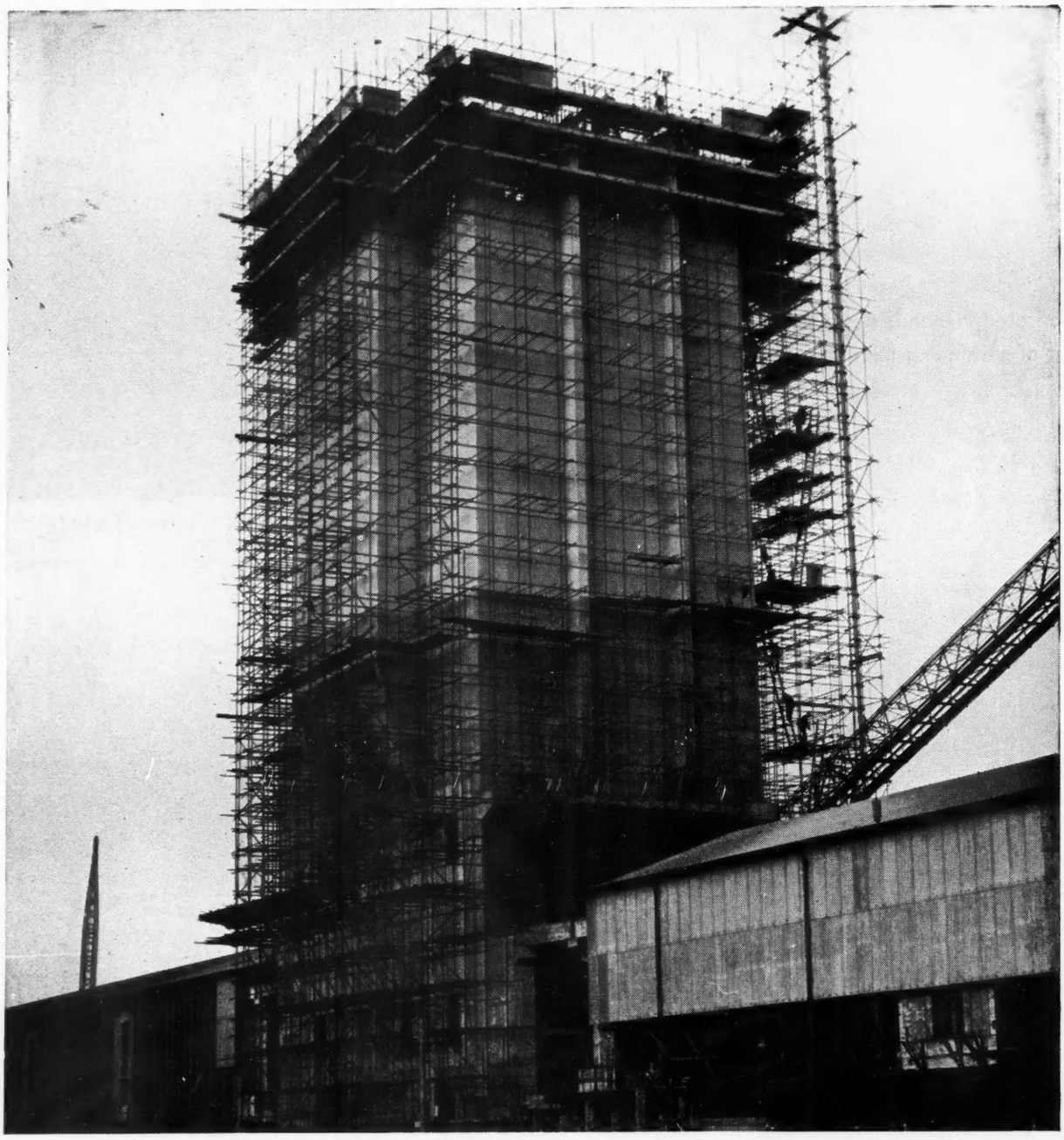

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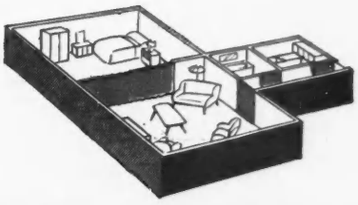

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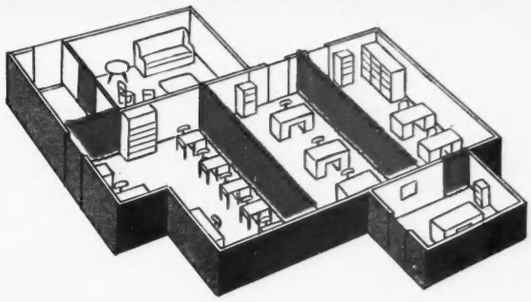

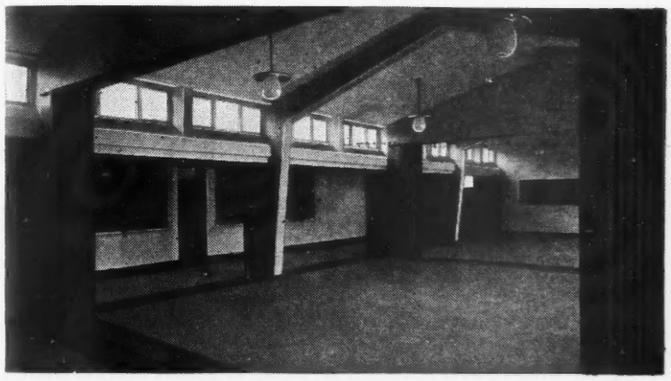

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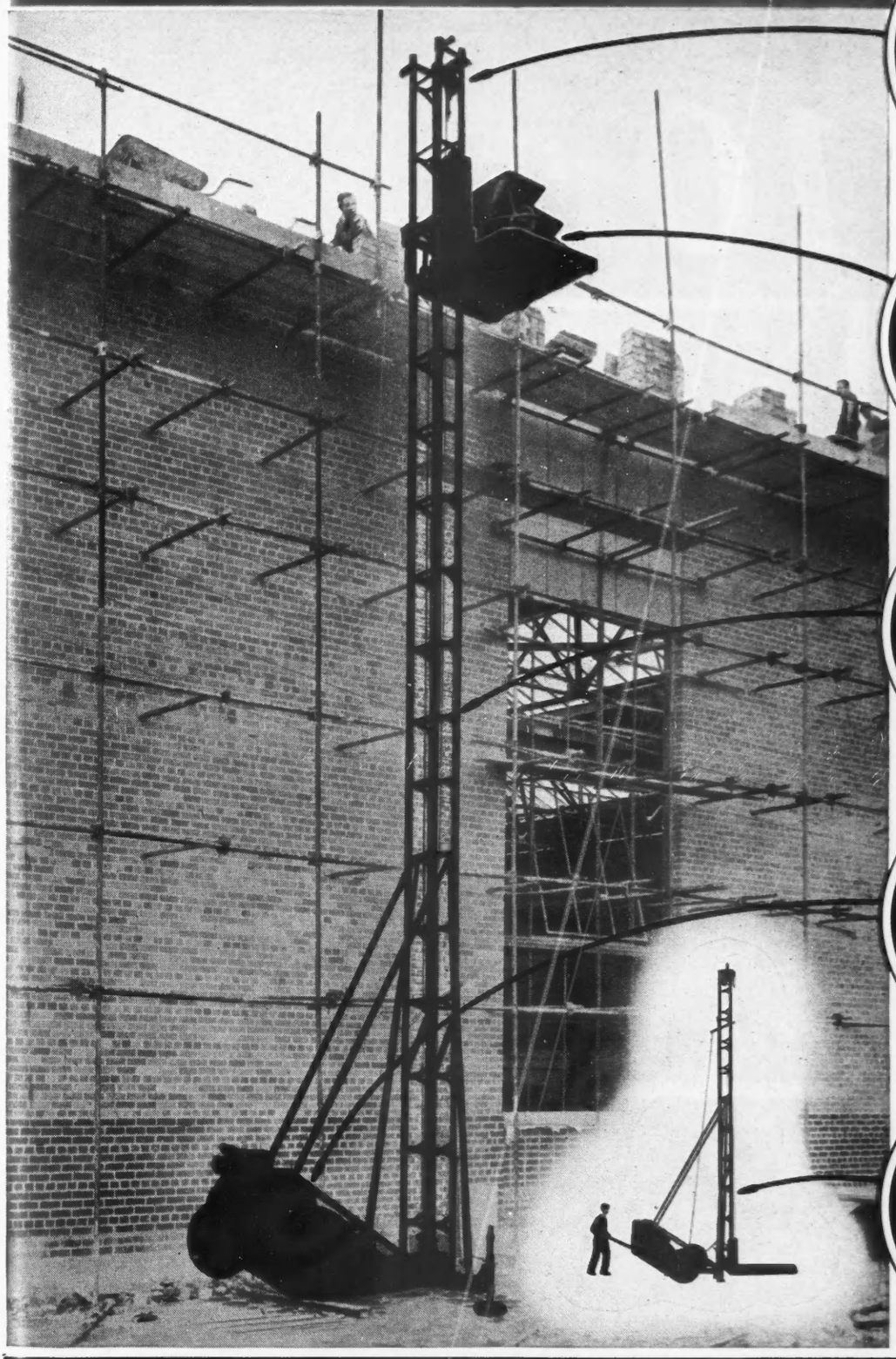

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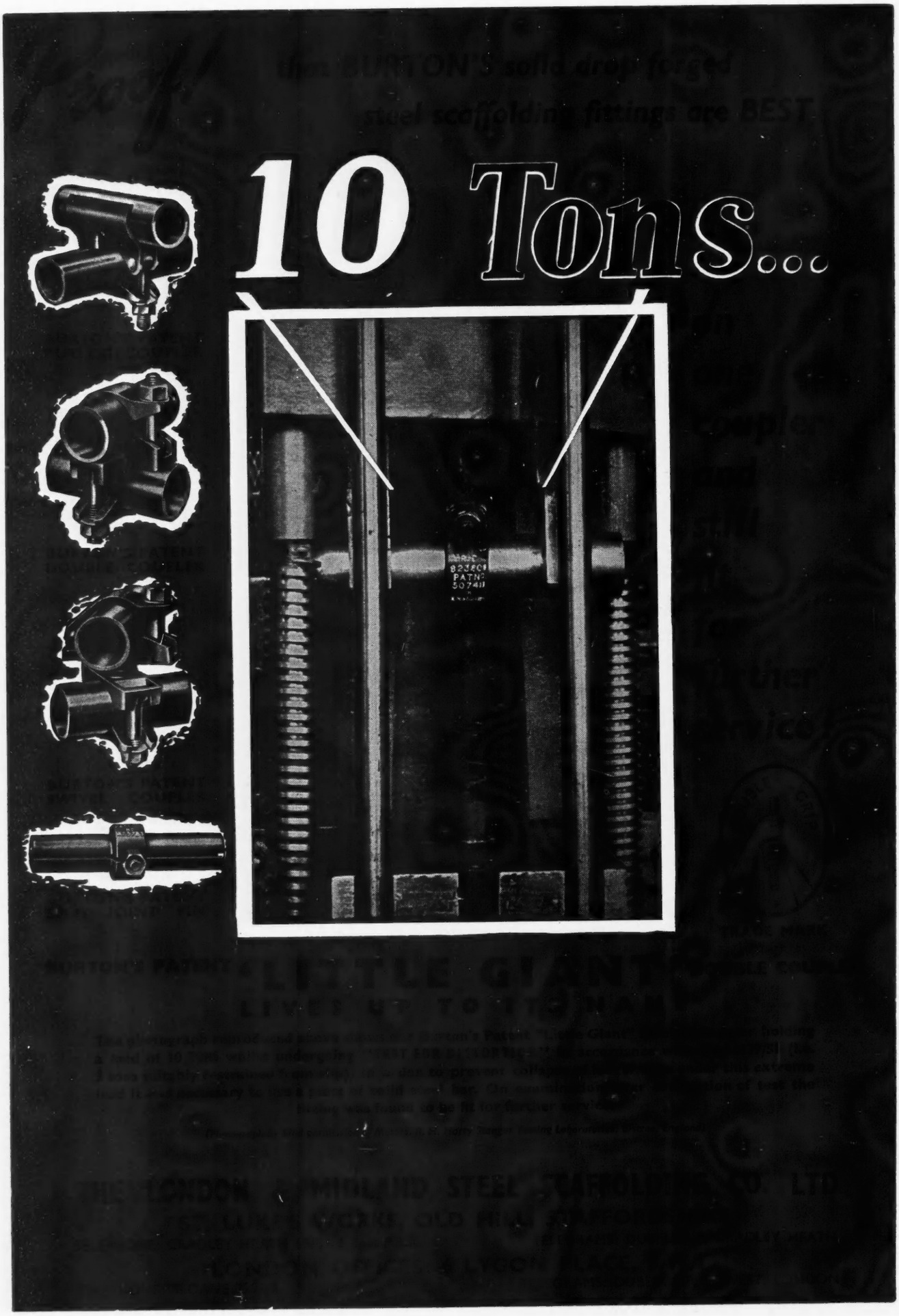
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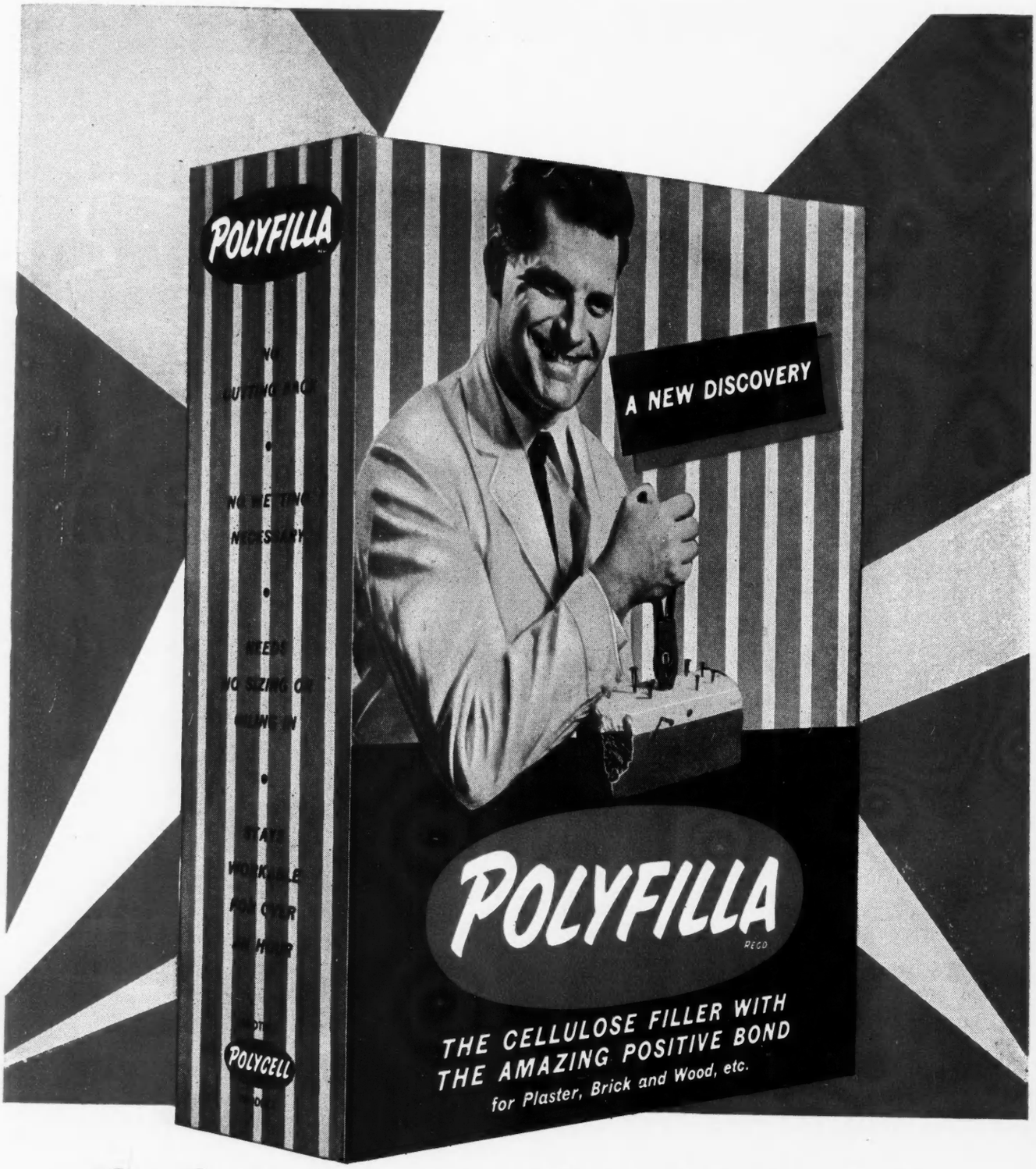

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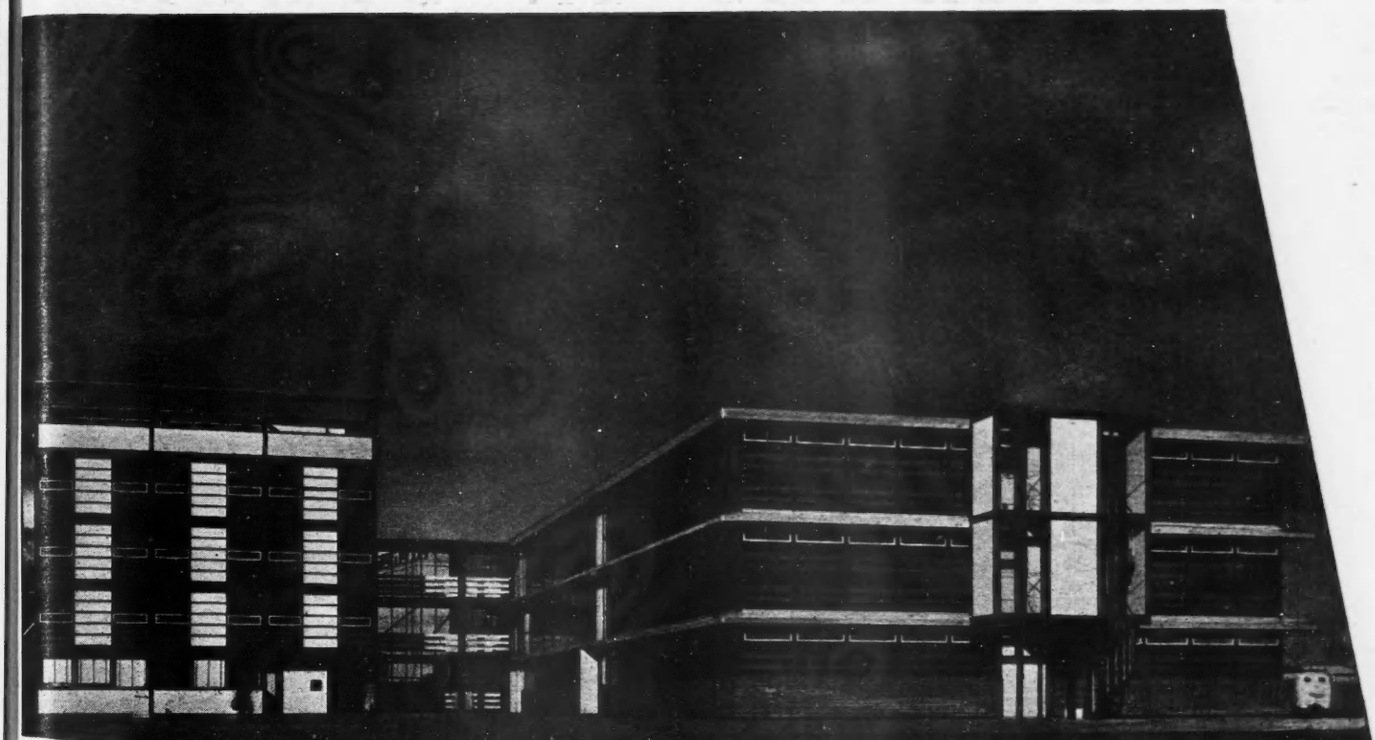

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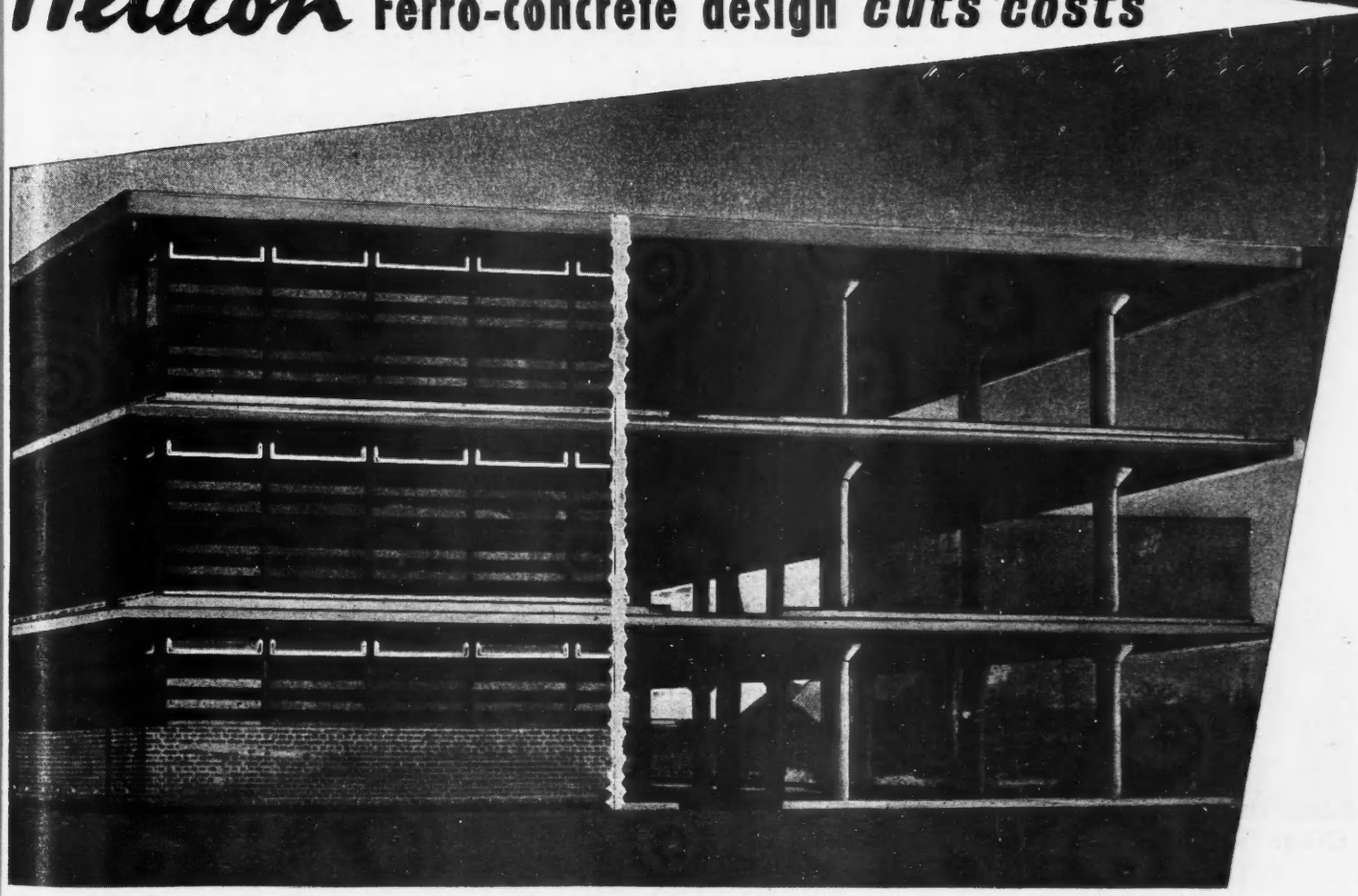

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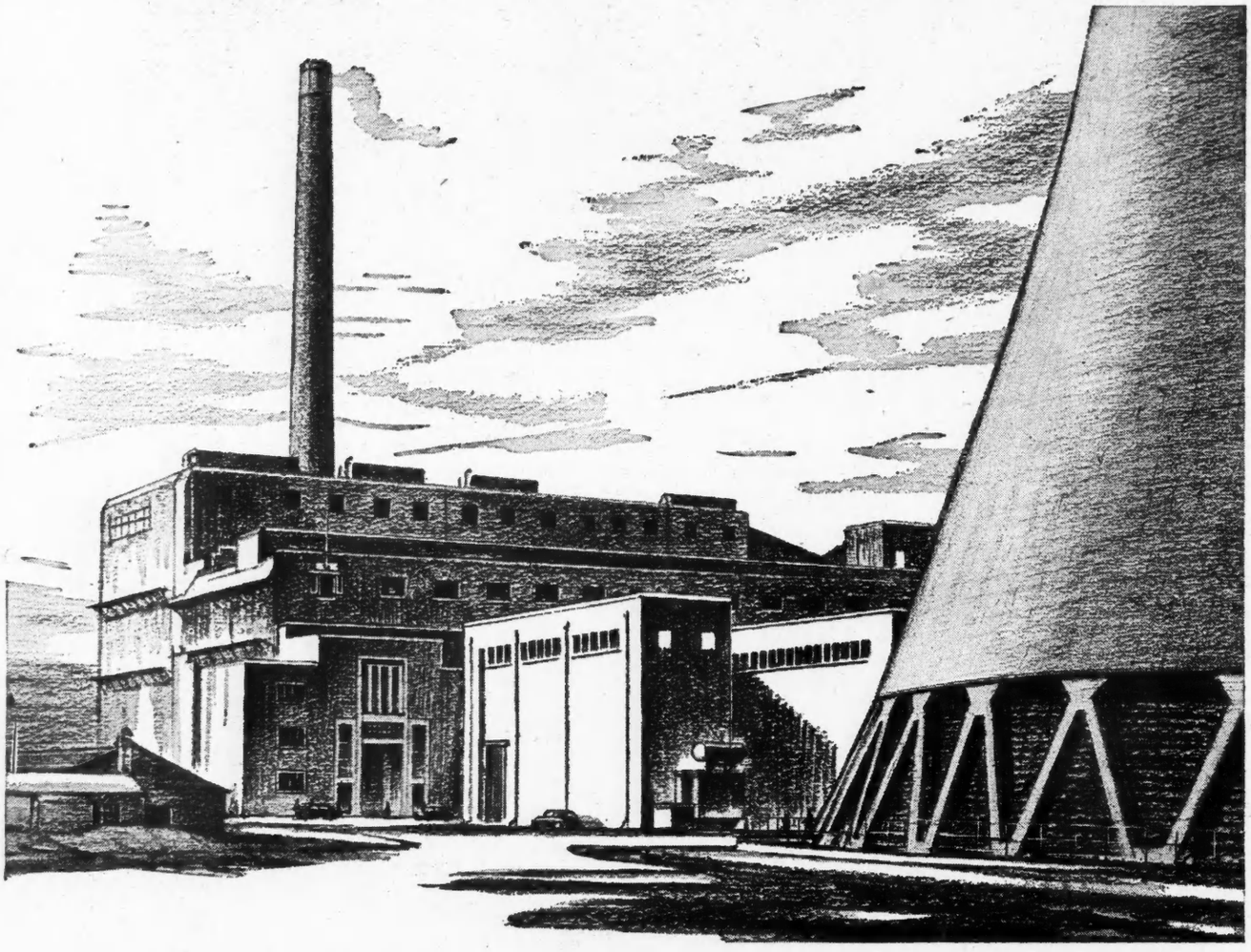

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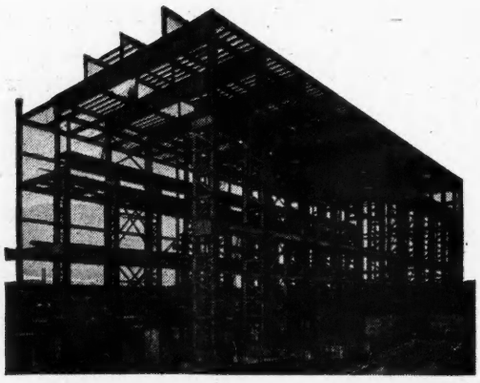

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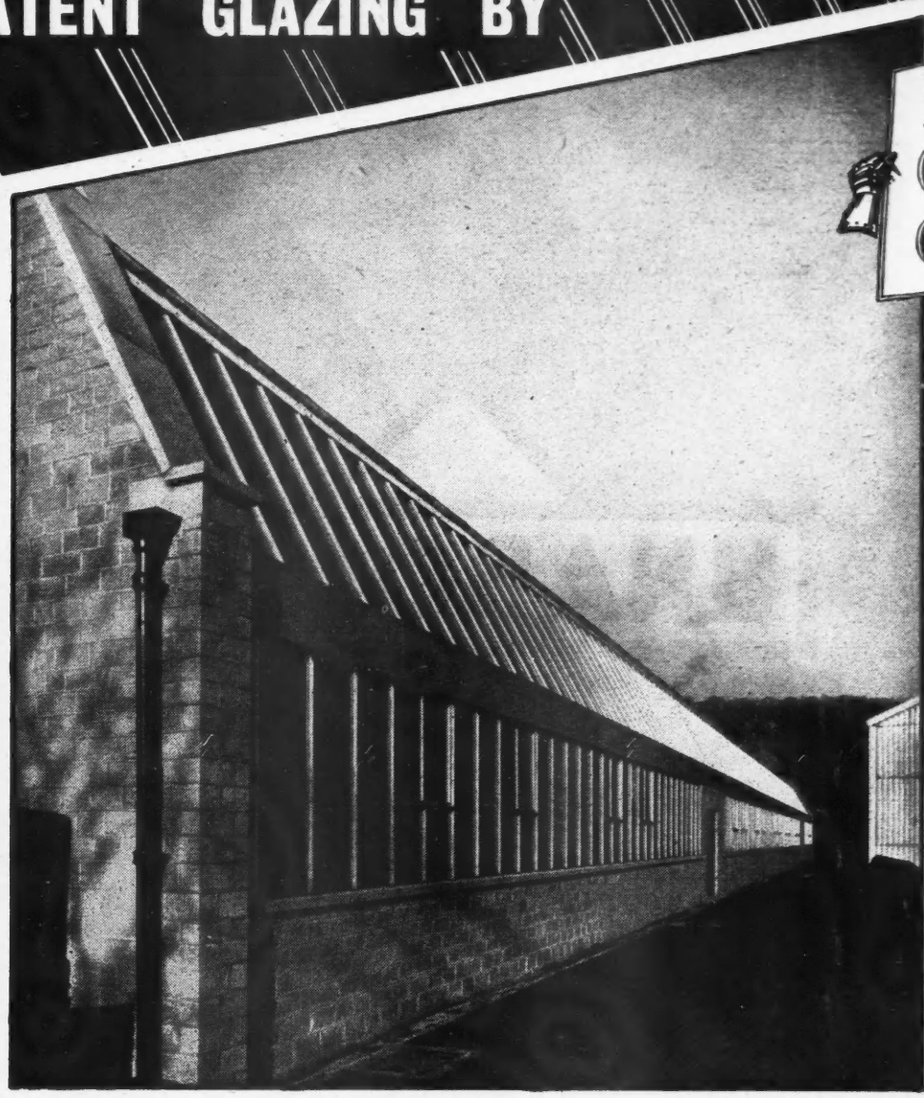

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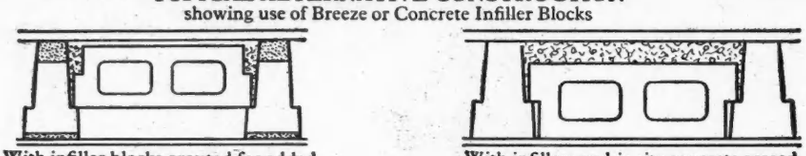
TYPICAL ALTERNATIVE CONSTRUCTION
showing use of Breeze or Concrete Infiller Blocks



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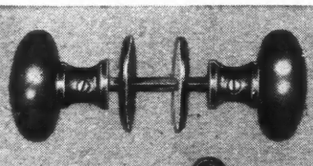
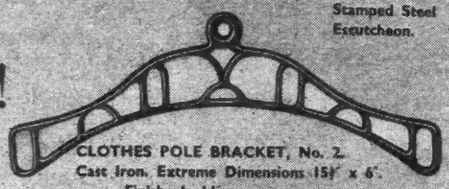
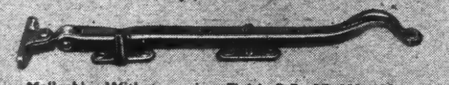


No. 1. 2½" OVAL KNOB Cast Iron. Spindle drilled through and tapped. Finish: B.B. Stamped Steel Escutcheon.



CLOTHES POLE BRACKET, No. 2. Cast Iron. Extreme Dimensions 15½" x 6". Finish: Jap'd.



CASEMENT STAY, No. 899. Malleable. With two pins. Finish B.B. 8", 10", 12".

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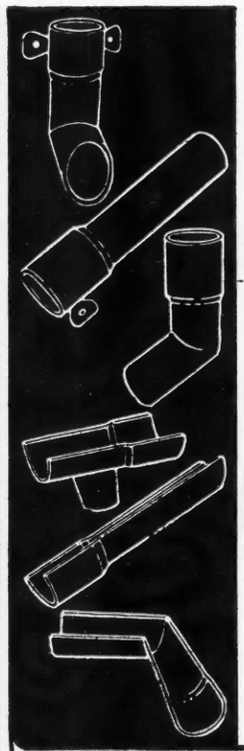

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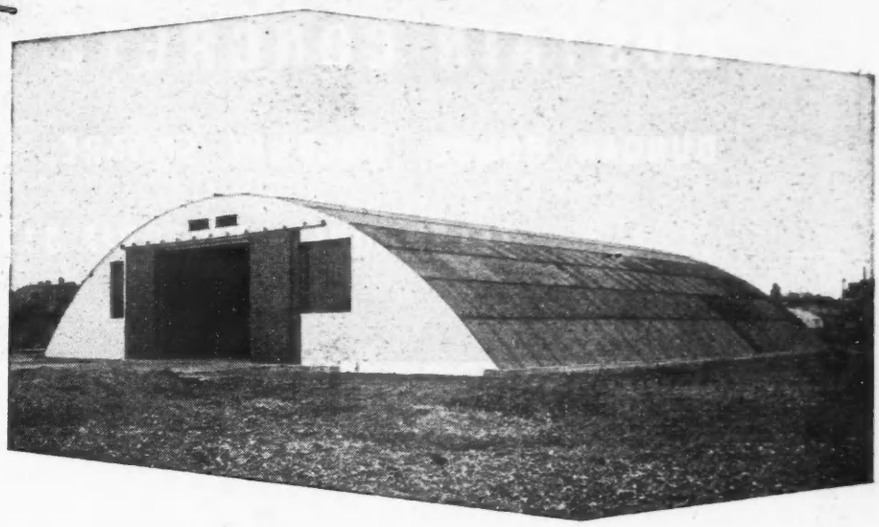

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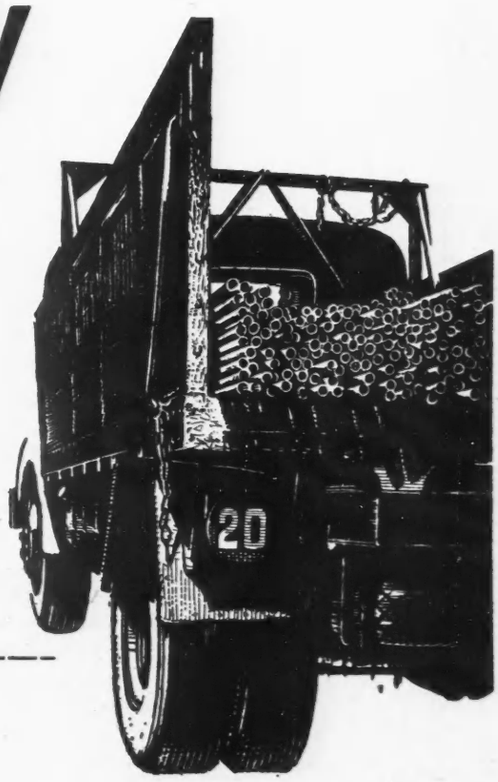

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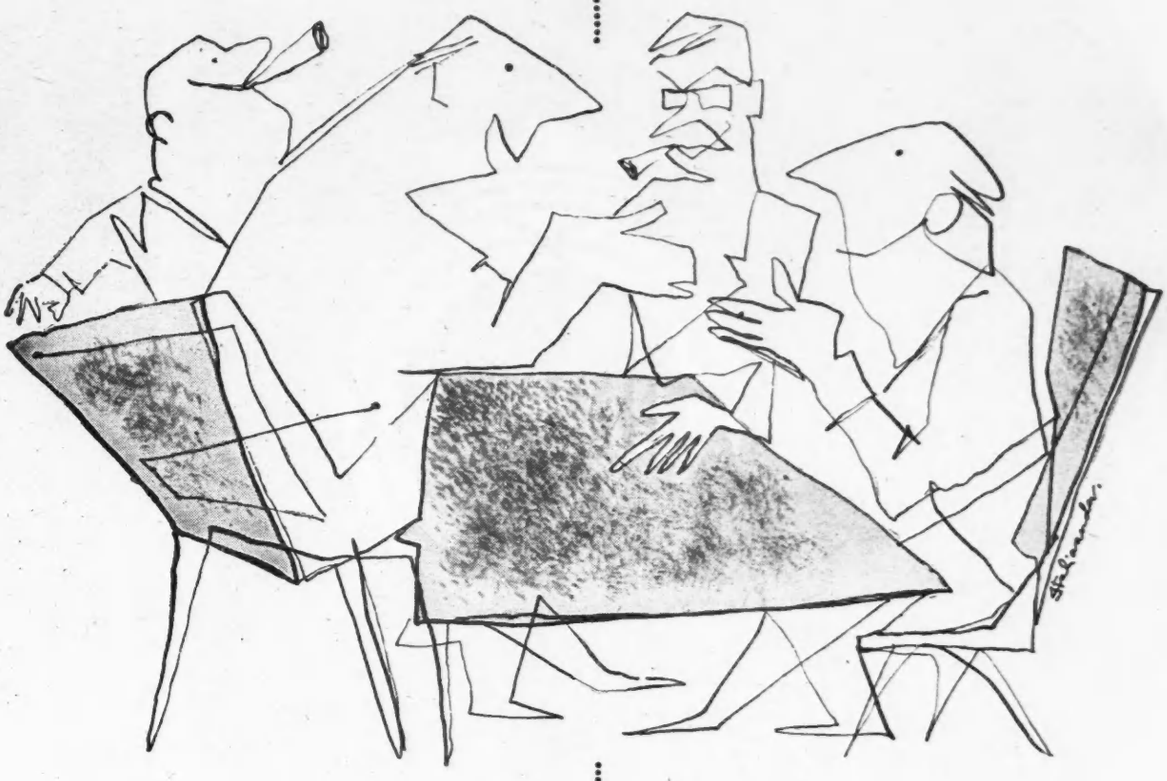

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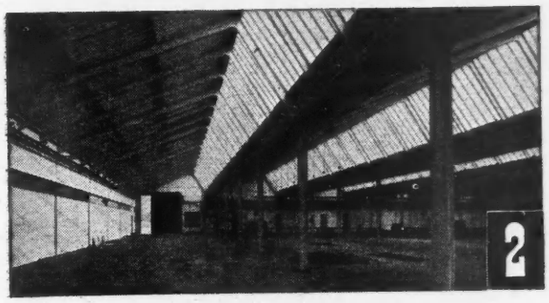

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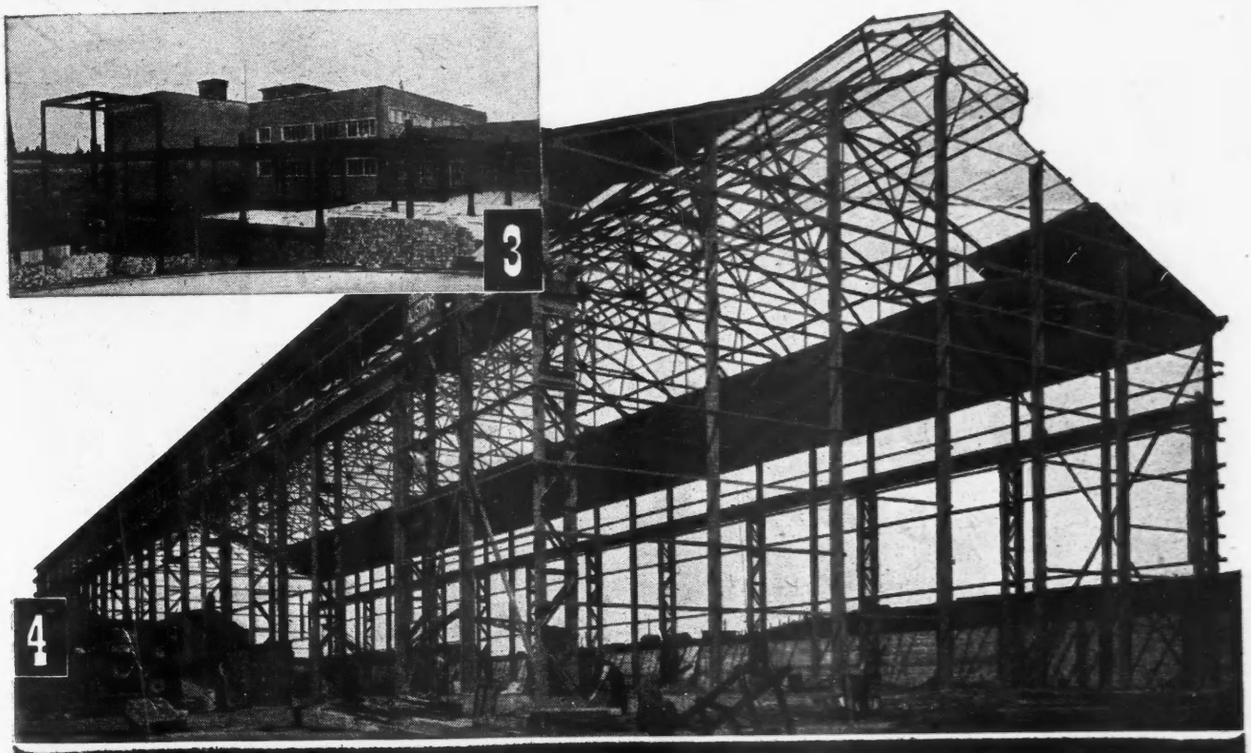

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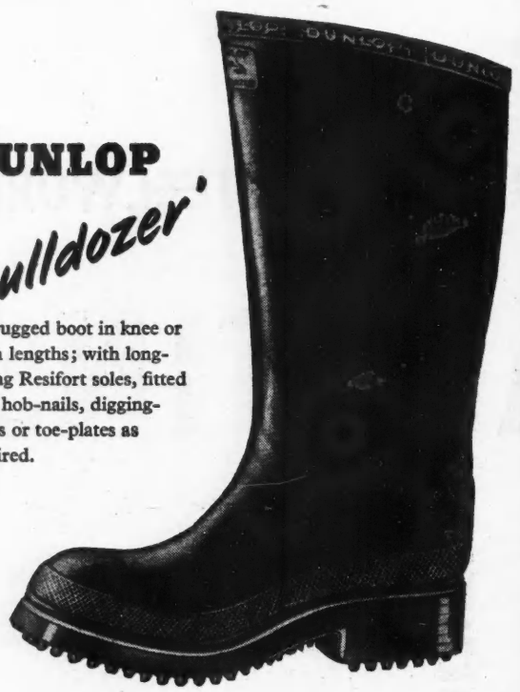

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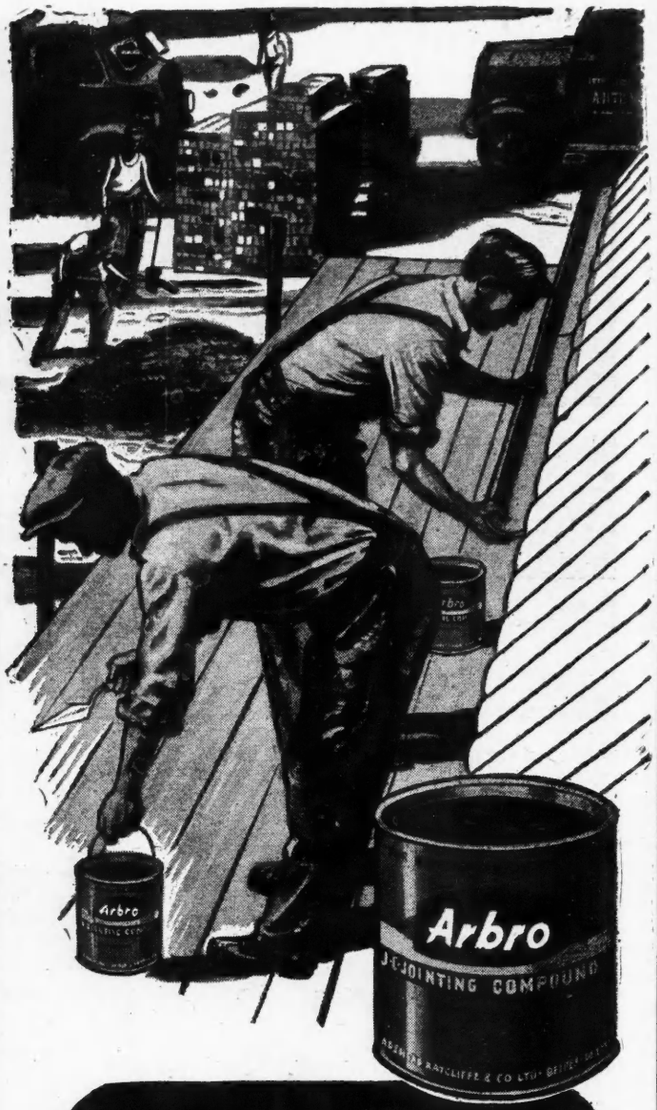

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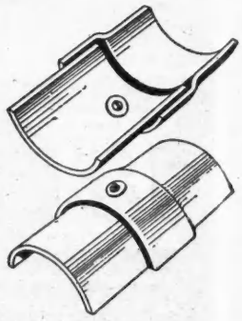

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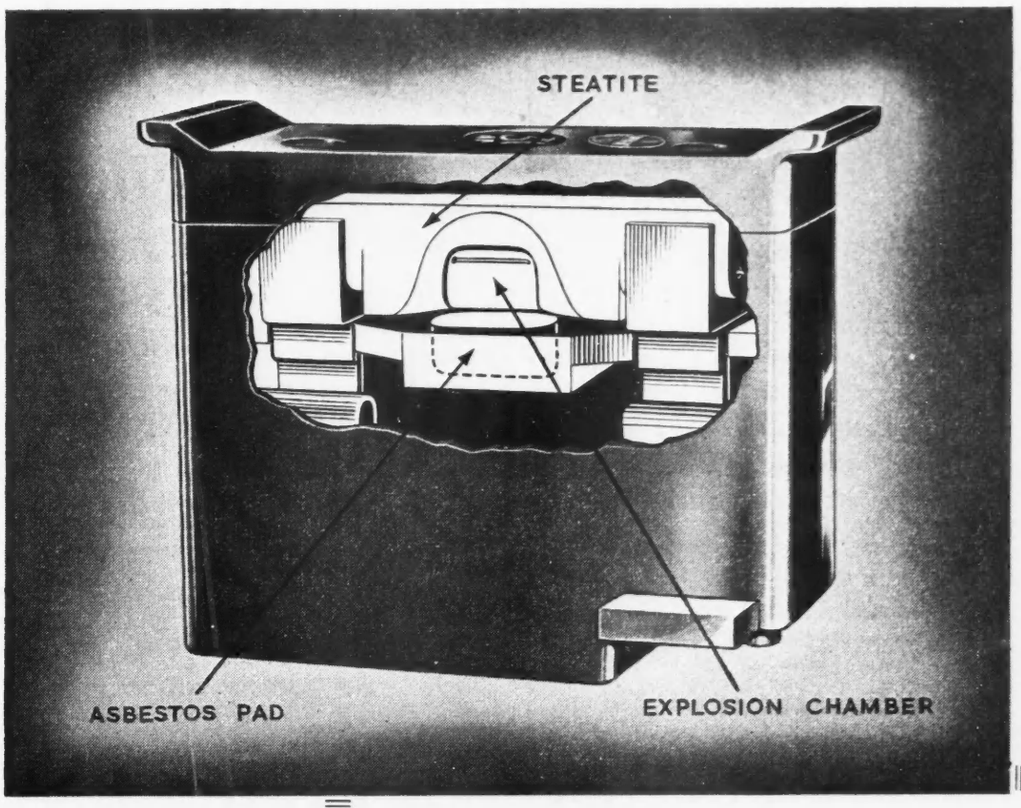

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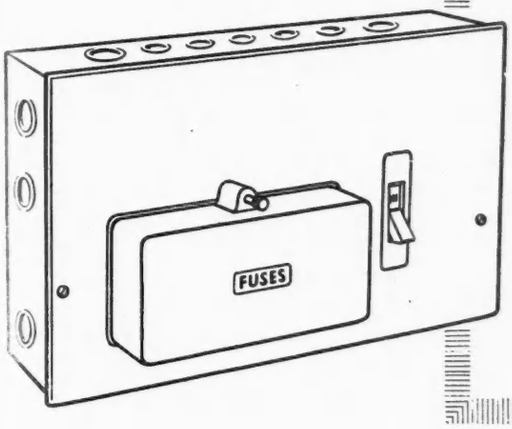

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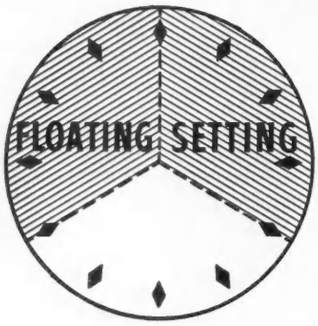

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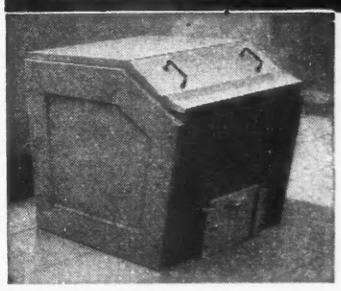

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★ *Pentagon-style and raked front keep coal near trap.*
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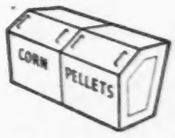

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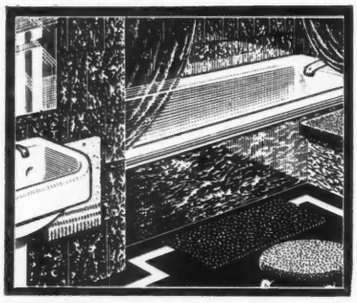

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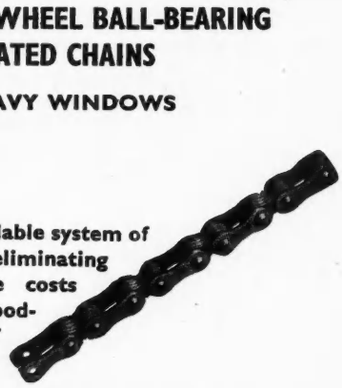

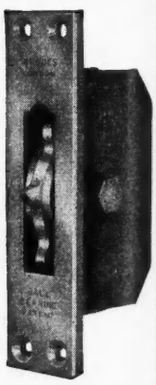

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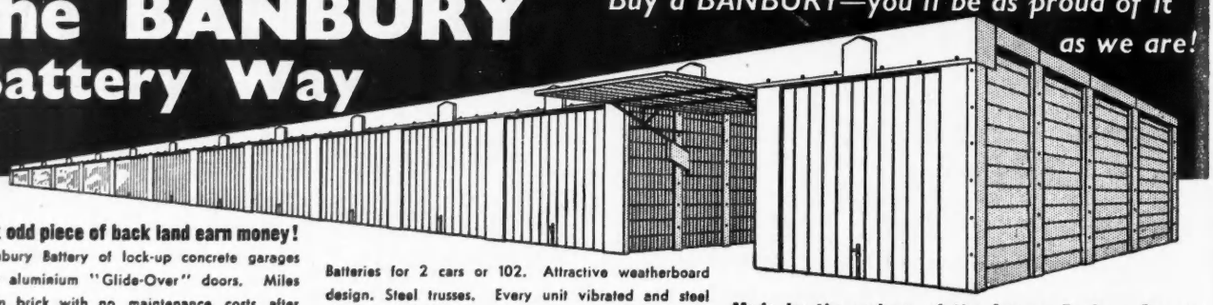

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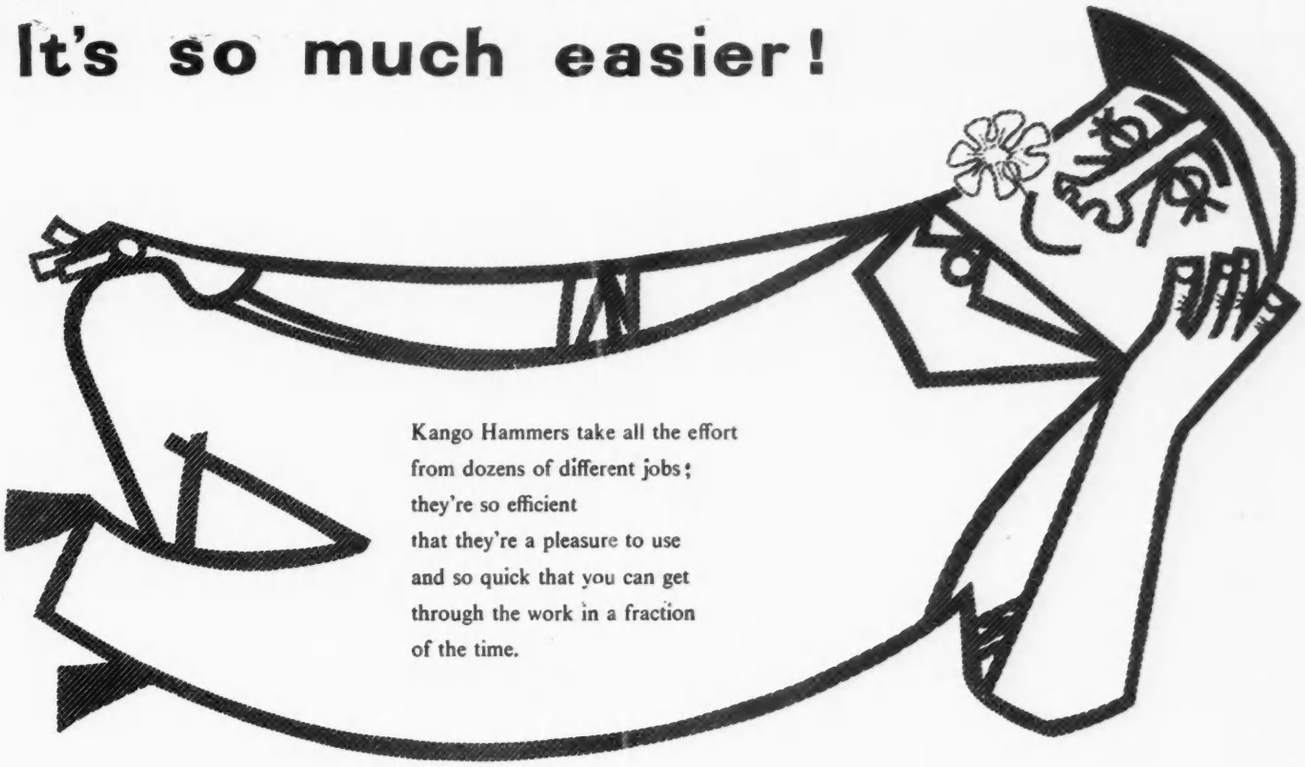

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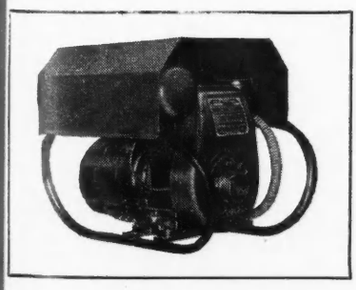

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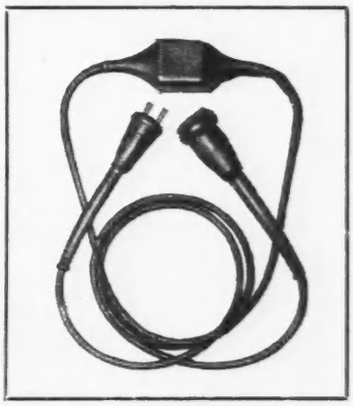

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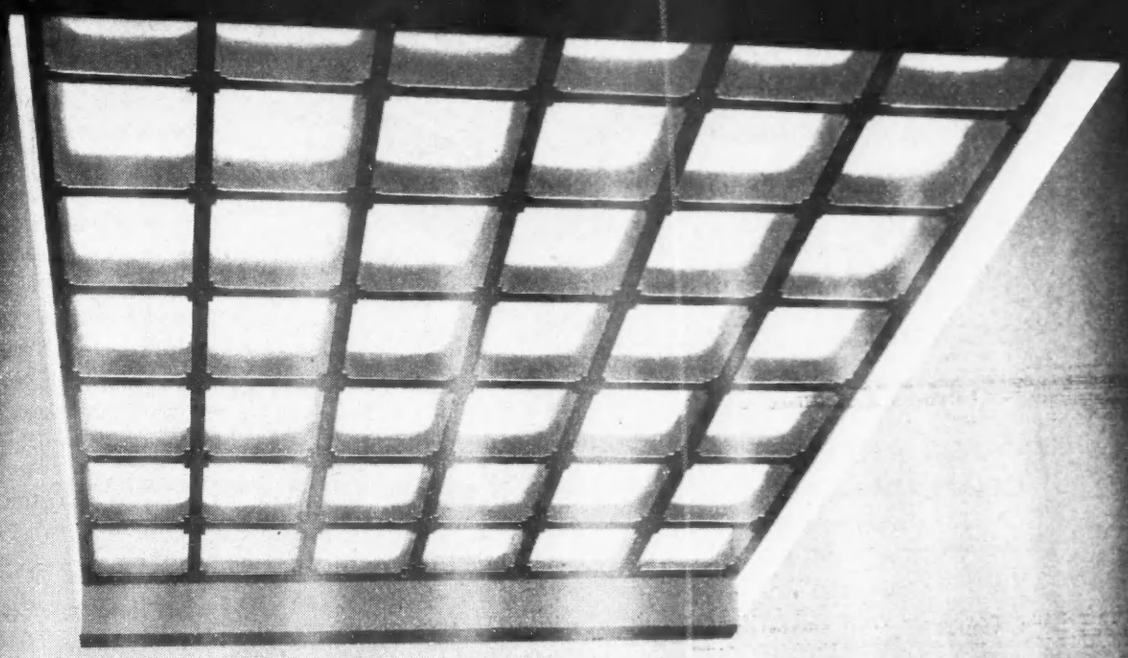
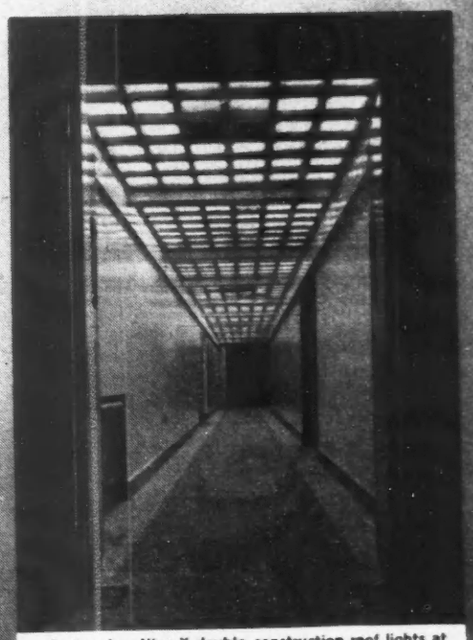


an abundance of daylight



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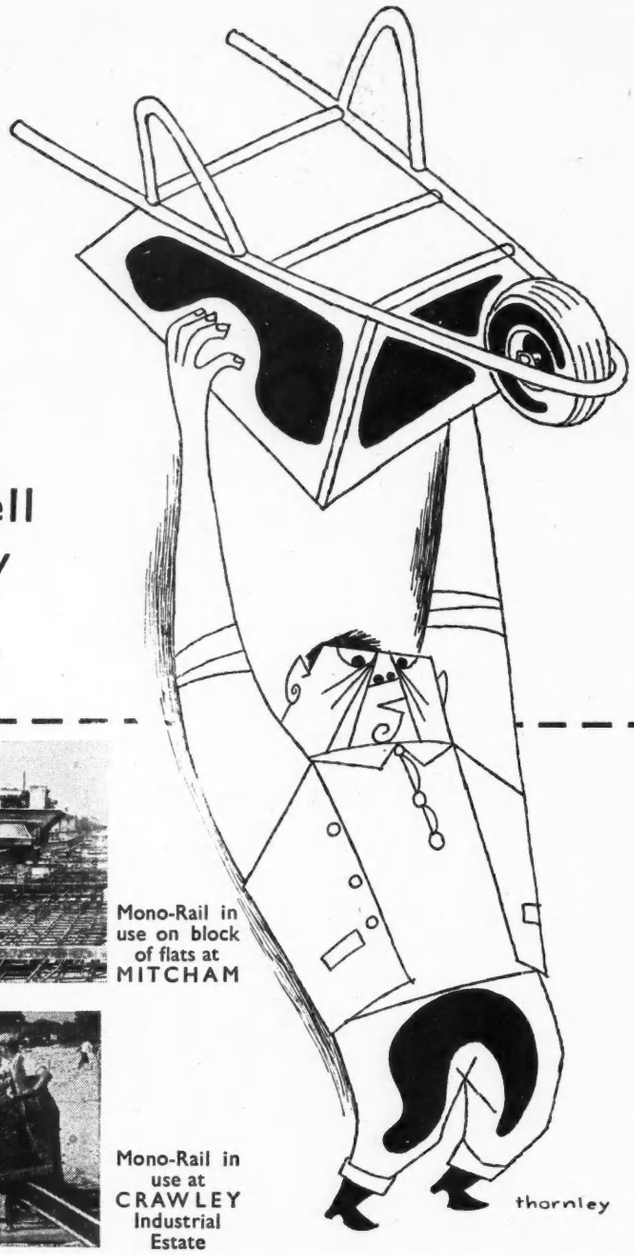

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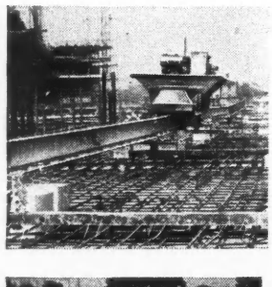
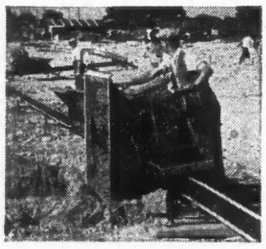


Mono-Rail in use on block of flats at MITCHAM



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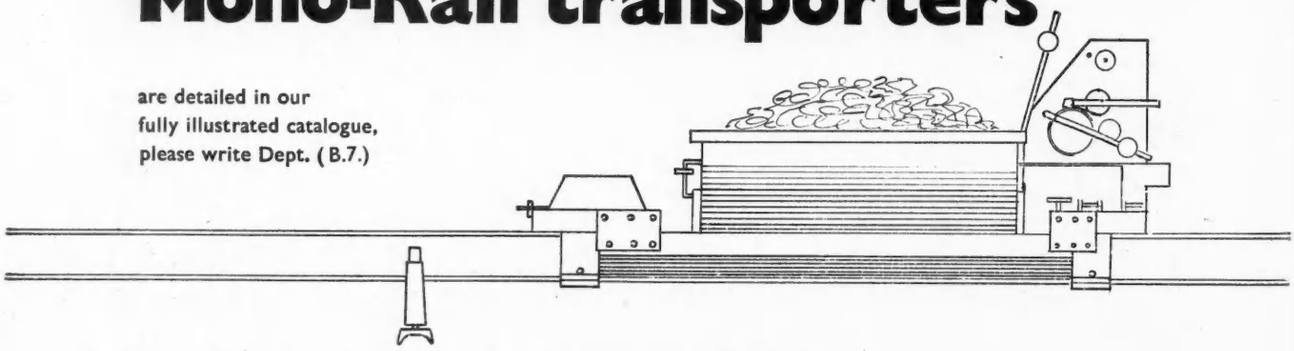

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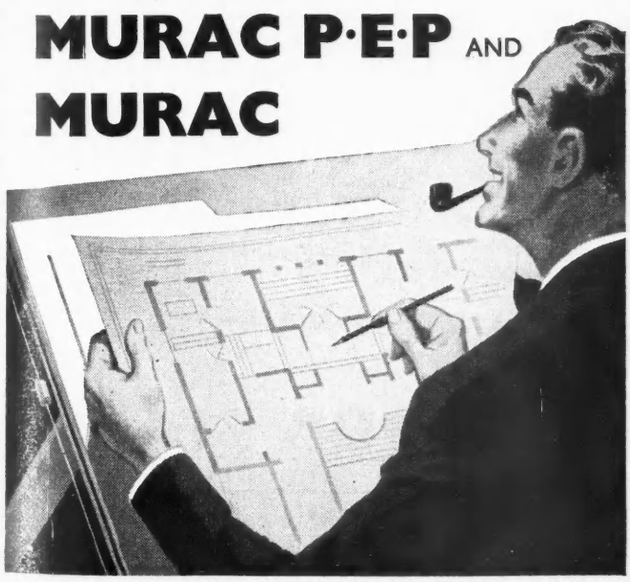

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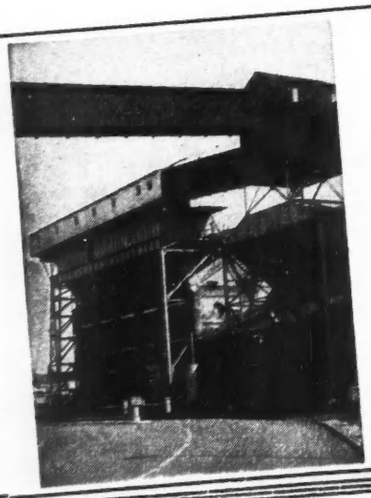

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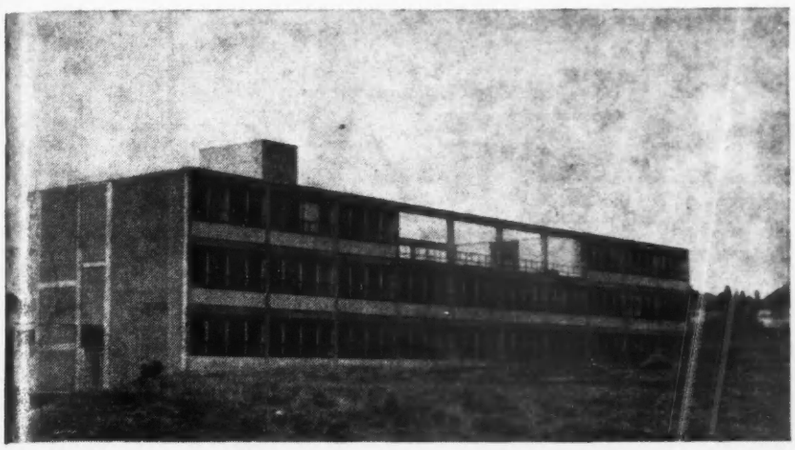

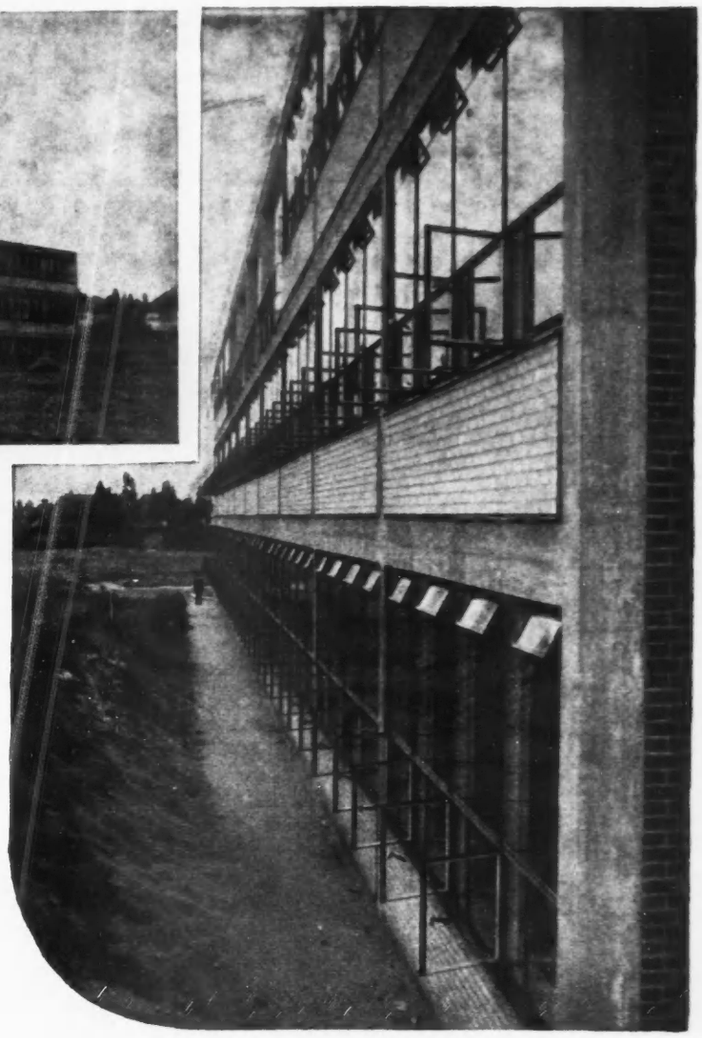

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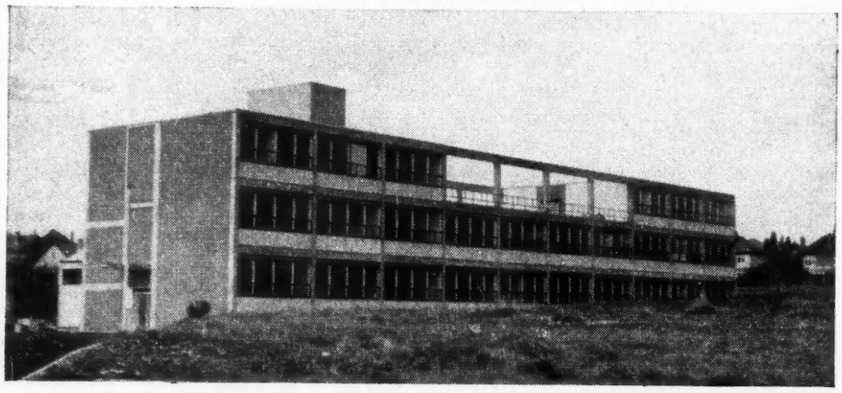

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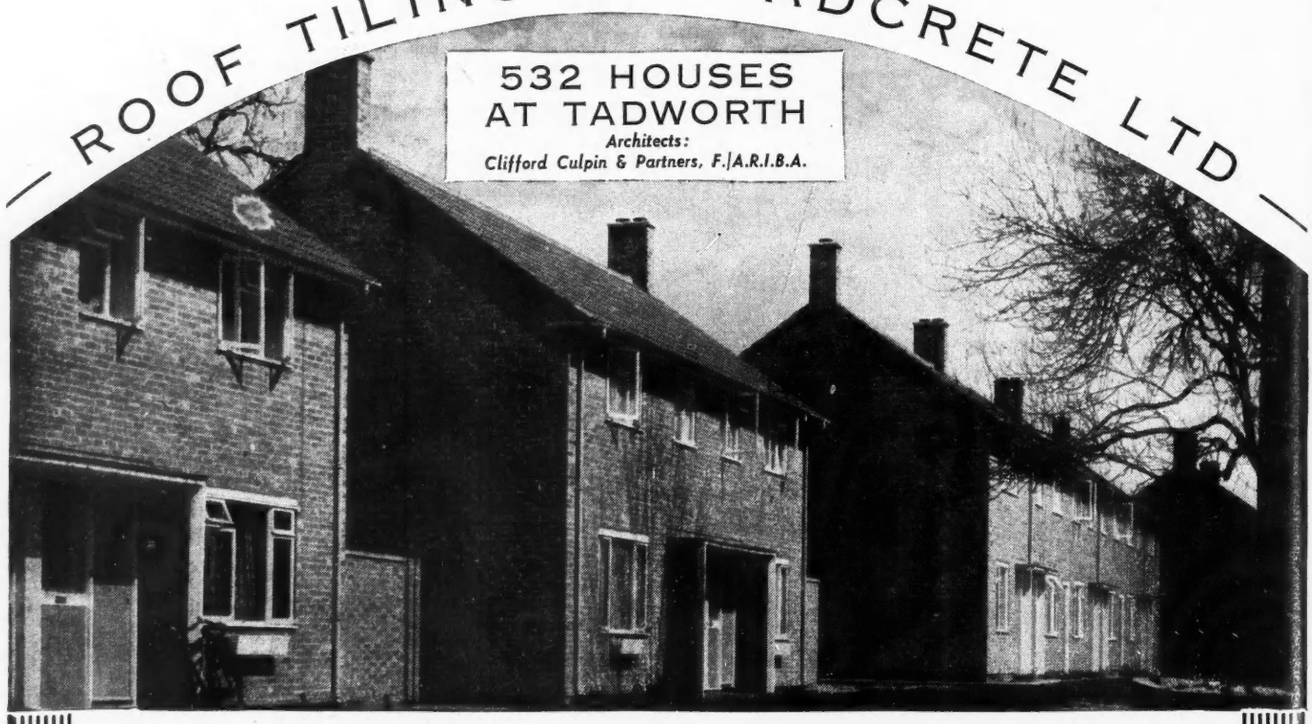

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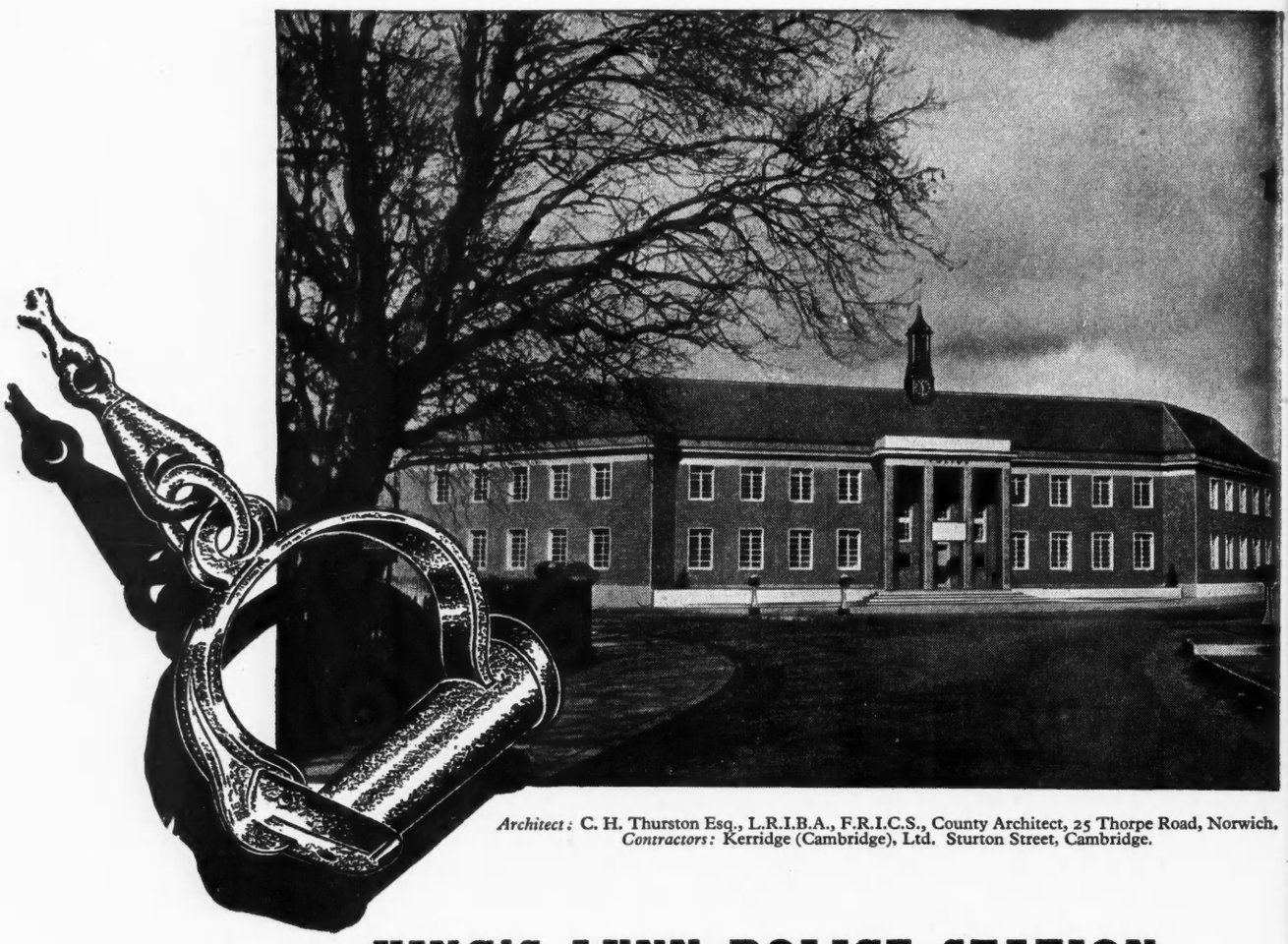

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Vol. CXCI August 10, 1956 No. 5915

NEWS SUMMARY

MESSRS. G. A. JELLICOE AND PARTNERS have been awarded a first medal by the International Festival of Architecture and Monumental Art for their design for the new Sylvania-Thorn Colour Television laboratories. *p.* 240

THE NEW PRESIDENT has stated that the Institute of Builders' most important task is to use its influence within the Board of Building Education in an endeavour to evolve a clear pattern of education and training for management. *p.* 242

MORE FIRMS have contributed to the policy of price restraint. *p.* 243

TO OBTAIN up-to-date knowledge of changes in the economic situation the Minister of Works is consulting the building and civil engineering industries about the possibility of their providing analysed information of their new contracts, the Chancellor of the Exchequer has announced. *p.* 244

LOCAL AUTHORITIES can expect little relaxation in the Government's restrictions on capital expenditure for a long time, Mr. Sandys, MoHLG, has indicated. *p.* 245

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CHANGES IN LOCAL GOVERNMENT

THE Government's proposals with regard to the structure of local government in England and Wales (as embodied in the White Paper published last week and abstracted elsewhere in this issue) are a sensible and constructive approach to a difficult problem. There are to be no sudden and drastic changes, and such improvements as are required will take place within the general structure now existing. This approach may not please those who have called for more sweeping changes, but the Government is surely right in deciding to retain the traditional and well-tried pattern. In the words of the White Paper: "A fundamental alteration of the existing structure could be justified only if it had been shown incapable of meeting present-day needs. That is not the situation . . . There is, therefore, no convincing case for re-shaping the existing form of local government in England and Wales. What is needed is to overhaul it and to make such improvements as are necessary to bring it up to date."

There is advantage, too, in retaining a system which is so closely associated with local loyalties. The White Paper rightly stresses these loyalties as a source of strength to local government, but perhaps under-estimates them in suggesting that they have grown up around the present system of local government. These local loyalties are often deeply embedded in English history and character, and it is no mere sentimentality to insist that local government should be linked as closely as possible to them.

The White Paper is concerned with questions of structure. The very important question of local government finance is being considered separately, and the Government's conclusions will be announced in due course. The possible redistribution of certain functions as between county councils and district councils is also being considered separately. As regards structure, the Government's main proposal is to set up two Local Government Commissions, one each for England and Wales, to make recommendations to the Minister with regard to the creation and extension of county boroughs, any necessary alterations in county boundaries, and the organisation of local government in the conurbations. One other important proposal is that there should be a further substantial reduction in the number of small county districts; outside the conurbations, the county councils are to continue to be responsible for reviewing the areas and boundaries of county districts, but the White Paper says that it is essential that all county councils should tackle this task with determination.

How is all this likely to affect the building industry? In the first place, of course, the main controls to which the industry is now subject—by-laws and planning—are administered by local government. By-laws are everywhere administered at borough and district level. Planning controls are primarily the responsibility of county authorities, but may be delegated to district level. The industry's needs are for prompt and sensible decisions, and—whilst final responsibility must remain with the elected committees—much depends on having officials of the right calibre. An amalgamation of smaller districts should make it easier to recruit the right men to these places. At the same time, county councils may be more willing to delegate their town planning functions to district councils of adequate size; this again should be helpful to the industry.

The proposed reforms are also of interest to the industry in that local authorities have become and are likely to remain large-scale building developers. The industry's main need in this connection is that, in their capacity as clients of the industry, local authorities should understand and be sympathetic to the needs of the industry. Compared with other classes of building employers, local authorities have not a particularly favourable record. The proposed changes in the structure of local government are not likely to make any immediate difference in this connection, but the industry will naturally welcome any changes which enhance the status and improve the efficiency of local government as a whole.

Notes of the Week

IoB as Factor in Education

THE change of President of the Institute of Builders marks the end of the first stage in the renaissance of a body which, old as it is, has in all probability its fullest contribution to the art and science of building yet to come. The task of rebuilding the Institute on broader foundations, begun two years ago under the Presidency of Mr. Leslie Wallis, has made an excellent start. The council is drawing up a modified Licentiate Diploma examination which will be offered next year; it is engaged also in examining a number of courses relating to building, particularly those of university degree status, so that graduates may be advised as to the additional studies considered necessary for the Licentiate Diploma examination. And, finally, the Institute has played a leading part in setting up the Board of Building Education which has so large a part to play in evolving a clear pattern of education and training for management, and in recruiting to the ranks of the industry the best type of young man from the schools and universities.

The building industry and the Institute itself owe much to Mr. Wallis for his tireless and far-sighted leadership over the past two years. His particular contribution has lain in the direction of leading the Institute outside its ivory tower, and bringing it into the forefront of current thought and progress. To Mr. Wallis and those others, not all now within the Institute's council, who have laboured to bring about this necessary change, the building industry is indeed grateful. Those who like showing gratitude in tangible form can perhaps best do so in support of the new President, Mr. H. S. Oddie, by encouraging their young executives to sit for the Institute's examinations and themselves by seeking special case membership of the Institute. In the work ahead the practical and effective assistance of every skilled master builder is wanted.

Our Planning Praised

SOME sixty French men and women, who have been attending the seventh congress organised by the Franco-British Society have just returned to France. The architects and others in the party have spoken with some frankness to their fellow countrymen over French neglect of modern town planning. They were taken along the coast from Exeter through Teignmouth and around Torbay. Particularly they were struck by the lack of ribbon development along the coastline of South Devon, as compared with the almost continuous building of villas and houses along the French Riviera between Cannes and Nice, and then extended through Monte Carlo to Mentone. The French visitors, impressed by the beauty of the coastline around Torbay, commented upon this lack of ribbon development and some declared that this was where Torbay scored over the French Riviera.

Catholic Cathedral Renovations

ON JUNE 28, 1856, the foundation stone of the new Catholic Cathedral of St. Mary and St. Boniface, Plymouth, was laid by Bishop Vaughan and work commenced upon the building to the design of Joseph Aloysius Hansom, the architect, founder and Editor of *The Builder*, and inventor of the Hansom cab. Five months later began a series of structural mishaps commencing with failure of some of the main arches and pillars of the nave, followed later by the collapse of the south clerestory and nave roof and later again the transept and sanctuary roofs. A year after the laying of the foundation stone only the outer walls remained standing.

Undaunted by these calamities rebuilding was commenced at once, this time with greater success, the Cathedral being opened in time for the feast of the Annunciation, 1858.

With a view to forthcoming centenary celebrations, Bishop Restieux, of Plymouth, has commenced internal repairs and renovations designed to make good the ravages of time, war damage and misapplied decoration and to give to the interior, perhaps for the first time, a dignity and simplicity more suitable to the scale and lines of the building. The architect for the renovations is Mr. Hugh Bankart, FRIBA.

CORRESPONDENCE

Surveyor to St. Paul's

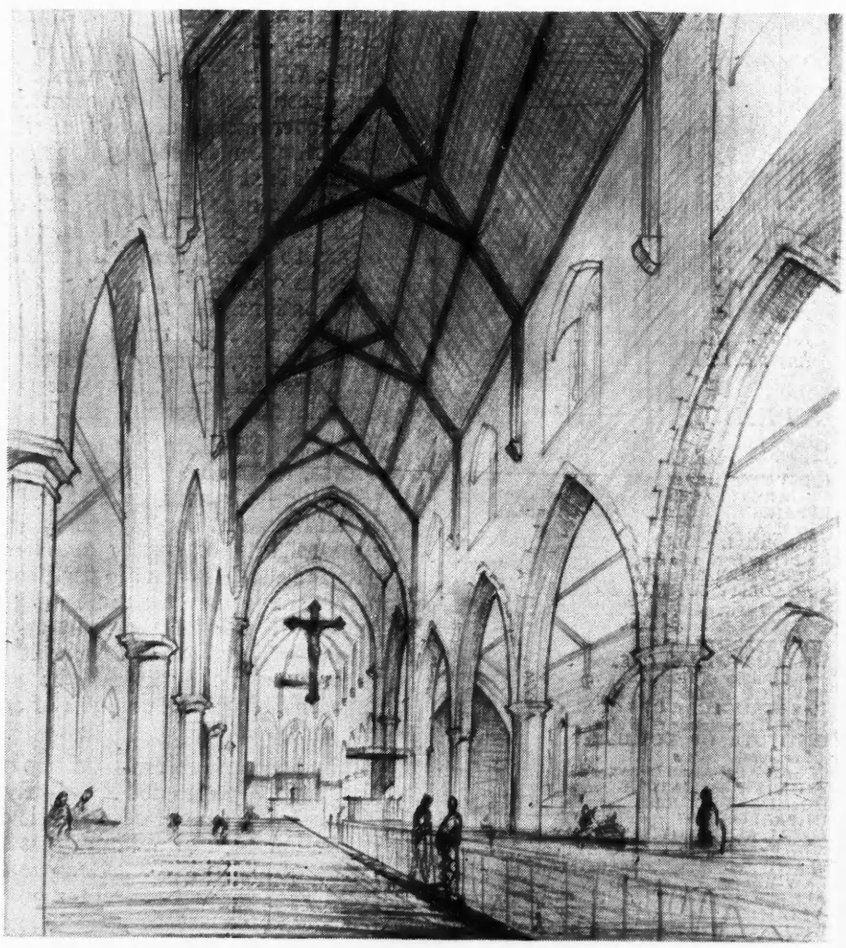
To the Editor of *The Builder*

SIR,—In your very kind and appreciative reference to my retirement from St. Paul's which appears in your issue of August 3, there is a mistake which I feel I must correct. I cannot claim to have served the Cathedral as Surveyor longer than any of my predecessors save Wren; that is a distinction which belongs to that great architect and antiquarian—all honour to his name and memory—F. C. Penrose, who carried out the alterations in the choir and was Surveyor of the Fabric for 45 years. In comparison with his length of service, mine is quite unremarkable.

The investigation of the foundations and subsoil in the vicinity of the Cathedral was carried out by Sir Alexander Gibb and Sir Ralph Freeman, who were joint authors of the report which led to the St. Paul's Cathedral Preservation Act. Sir Ralph subsequently became consulting engineer to the Dean and Chapter, and at his death the appointment passed to a partner in his firm.

W. GODFREY ALLEN.

Temple Chambers,
Temple-avenue, EC4.



A SKETCH of the interior of the Catholic Cathedral of St. Mary and St. Boniface Plymouth, which is being renovated under the instructions of Hugh Bankart, FRIBA

WILLIAM WILLETT (1856-1915)

Saver of Daylight and Builder of Homes

By FRANCES COLLINGWOOD

TO the vast majority the name of William Willett, if it means anything at all, suggests putting the clock back or forwards. Only a minority, and those mostly Londoners, will link it with Sloane-square and the building trade. Yet building was the field in which the life-work of the Willetts lay.

There were, of course, two Willetts, but the son is by far the more famous and, with the centenary of his birth on August 10, his achievements merit some consideration from us to-day.

The history of this noted building firm has its origin in the Marylebone-road where, in 1868, William Willett, senior, traded as a marble mason. The failure of a concern engaged upon erecting houses at Belsize-park, to which Willett was under sub-contract, was the immediate cause of the marble mason's decision to carry on where his employer had been obliged to leave off. So Willett stepped in, finished off the houses himself and, by so doing, created the business that has flourished ever since.

William Willett, junior, was born at Farnham on August 10, 1856, and received his education at Marylebone Grammar School. He was a bright lad in whom dreams of a new era in housing design seem to have mixed well with an inherited flair for organisation. Conscientious and thorough in all he attempted, he would not enter his father's business until he had acquired a firm grounding in the conduct of trade. This precaution was to pay handsome dividends, for no sooner was Willett senior able to add "and Son" to his billheads than his reputation for high-class workmanship began to mount to its peak.

Enthusiasm for Good Design

A sure recipe for success was young Willett's enthusiasm for better designed houses; an enthusiasm shared by a large number of people who were sick of the inconveniences of Victorian homes, and longed for something more imaginative.

Soon "Willett-built" houses were the talk of the town. Instead of the bleak stucco-fronted residences that had served London for so long, the Willetts introduced colour and warmth by the judicious use of Portland stone, best quality brickwork and effective tile-work. Individuality was attained by varying the elevation, and in paying due attention to setting, so that between house and background a fusion was achieved. The Willetts never made the mistake of sacrificing interior comfort to external design. The two elements were blended into a whole so satisfying that the lucky owner of a Willett house inhabited a different world from his less fortunate neighbour in the old stuccoed job.

Two important features of these homes were their accent on light and the well-conceived ground plan on which most of them were built. The Willetts were keen to avoid unnecessary stairs, and also saw to it that every room in their houses had ample window space. They were wise enough to entrust the design of their houses to architects and to co-operate with them. Famed for the quality of their craftsmanship, the new houses were in constant demand over a period of some 20 years.

An estate of red-brick houses, designed on Garden City lines, was created by the Willetts around Avenue-road, Elsworthy-road and Wadham-gardens, Hampstead. The so-called "Millionaires' Row," off Kensington High-street, is another example of their work. But perhaps their chief renown stems from the Cadogan estate, Sloane-square, which was transformed by them from a maze of mean houses and alleys into the fashionable neighbourhood of spacious streets and noble mansions we know to-day. Willett House, the corner block of offices facing Sloane-square station, is another memorial to the enterprise of these two remarkable men. Their activities also extended to Chislehurst and Hove.

Conditions in the building trade were naturally very different from those prevailing to-day. Both men held strong views on how their workmen should conduct themselves. Every foreman employed by Willett was presented with a list of 234 rules which he was expected to learn by heart. Some of these make strange reading to-day. What, for instance, would the modern workman make of the following:—

Rule 26: Facing bricks are not to be shot on to the scaffold; if anyone is found doing so, deduct 5s. from the bricklayer at the end of the week.

Rule 97: Let houses be accessible. Take care that means are provided for ladies to enter to look at the house, especially on Saturday afternoons.

Rule 98: As soon as the plastering is finished on each floor, see that the plasterer sweeps it out perfectly clean, and affix to the walls of each room, and on the staircase, printed notices stating that any workman who damages the plastering will be discharged or fined 1s.

Rule 207: Intoxicating liquors or smoking are not to be allowed on any work. A clause to this effect is included in all contracts. Anyone breaking this rule is to be discharged immediately.

Rule 227: The foreman is to provide the coppers required for wages before twelve o'clock on Saturday. About 8s. worth is required for every £100 to be paid in wages.

Hours were long and wages low in those late Victorian days. An average of 50 hours a week (51¼ hours in the summer, and 47 in the winter) was worked throughout the year for a standard wage rate of 9d. per hour. Yet the Willetts were good employers who would only be satisfied with the best workmanship.

A Major Claim to Fame

Apart from the valuable contribution he made towards housing, William Willett, junior, has his other major claim to fame. Indeed, it is a fame likely to preserve his name long after every house he built has passed into oblivion. The idea for Daylight Saving came to him in Petts Wood, near Chislehurst, in 1907. He was a great lover of the open air, and would indulge in a canter over this beautiful expanse of wooded common before breakfast every day.

One lovely summer's morning, the story goes, he was enjoying this exercise when the drawn blinds in several houses drew his attention to the fact that the occupants were still in bed. Put the clock forward an hour, he thought, and those people would be out in this glorious sunshine. Little did he realise then how much money and energy he would have to sacrifice before this brilliant idea became law nine years later.

"No need to put your clocks forward, Mr. Willett, to tell me it's Summer Time!"

He wasted no time in approaching Parliament, and the first Daylight Saving Bill was actually introduced in to the House, by Robert Pearce, in March, 1908. Supporters of the measure were many and influential, but this did not prevent opposition and ridicule. Further efforts to make it law were made in 1909 and 1911 without avail. Indeed, if it had not been for World War I it might never have been adopted.

Among the progressive MPs who supported Willett's plan was Winston Churchill who, when Home Secretary in 1911, prophesied that a grateful public would one day raise statues to Willett and festoon them with sunflowers on the longest day of the year.

In between the birth of his idea and his death in 1915, Willett published 19 editions of his pamphlet, "The Waste of Daylight," which was translated into several languages. In it he set out forcible reasons for reform in our management of the hours of daylight. He worked so hard and unceasingly that it seems very sad that he did not live to see the eventual triumph of his cause. He died, at Chislehurst, on March 4, 1915, the year before the wartime measure was brought in, and 10 years before the Summer Time Act became law in 1925.

Too late England honoured Willett for the benefactor he undoubtedly was. A portrait of him by Charles Shannon, RA, was publicly subscribed for in 1923, and unveiled in the council chamber of Chelsea Town Hall. Four years later 87 acres of Petts Wood was purchased for the nation in memory of the inventor of Daylight Saving and a memorial erected there in the form of a sundial set to Summer Time.

JOINT HOUSING SCHEME, TADWORTH, SURREY

Architects : CLIFFORD CULPIN & PARTNER

Consultants, Landscaping: SYLVIA CROWE, FILA

Roads and Sewers: A. P. I. COTTERELL & SON

Quantity Surveyors: DEARLE & HENDERSON, FF.RICS

Builders : CARLTON CONTRACTORS, LTD., & JOSEPH CARTWRIGHT, LTD.

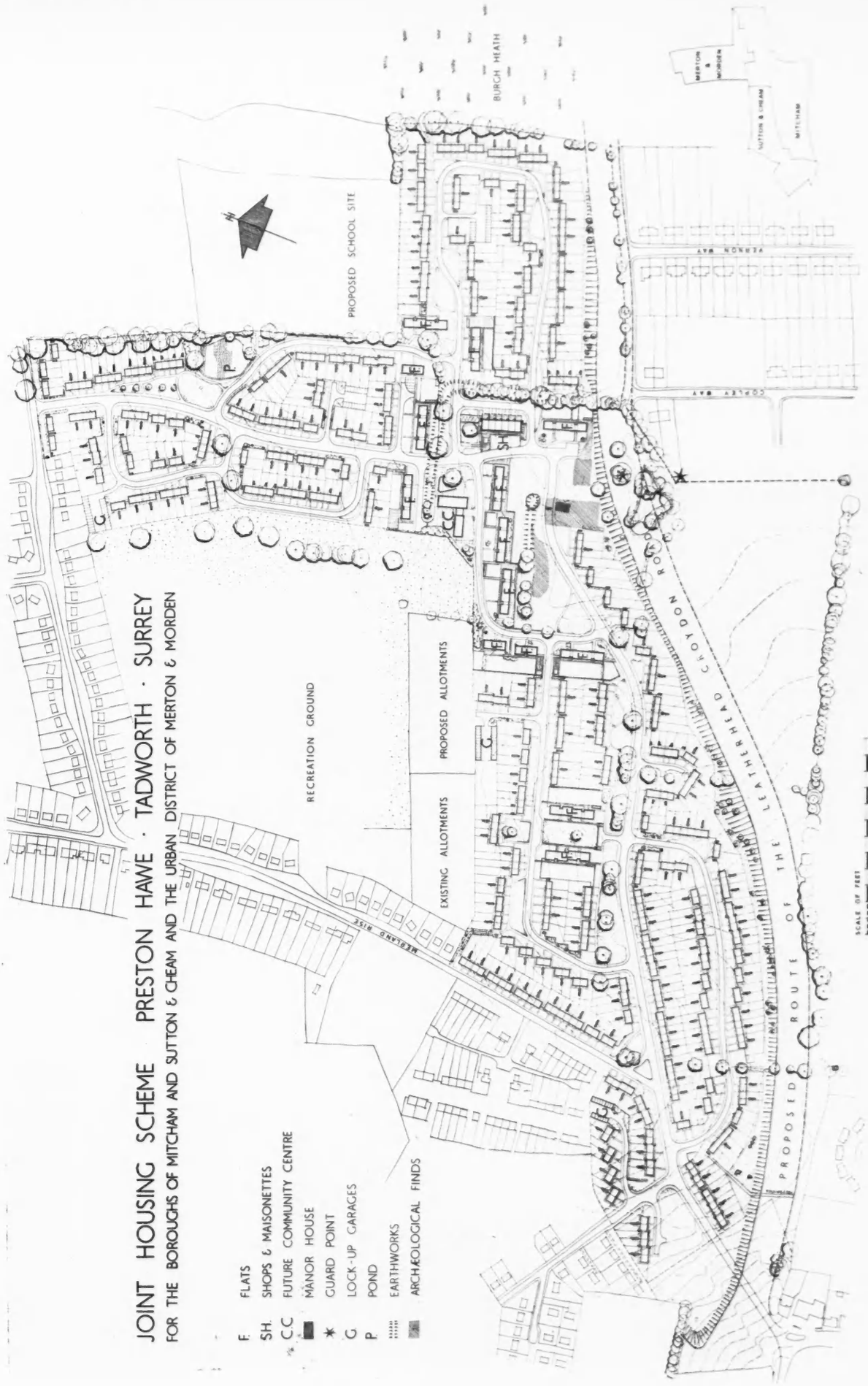
The photographs were taken by : Philip Vallis, ARIBA

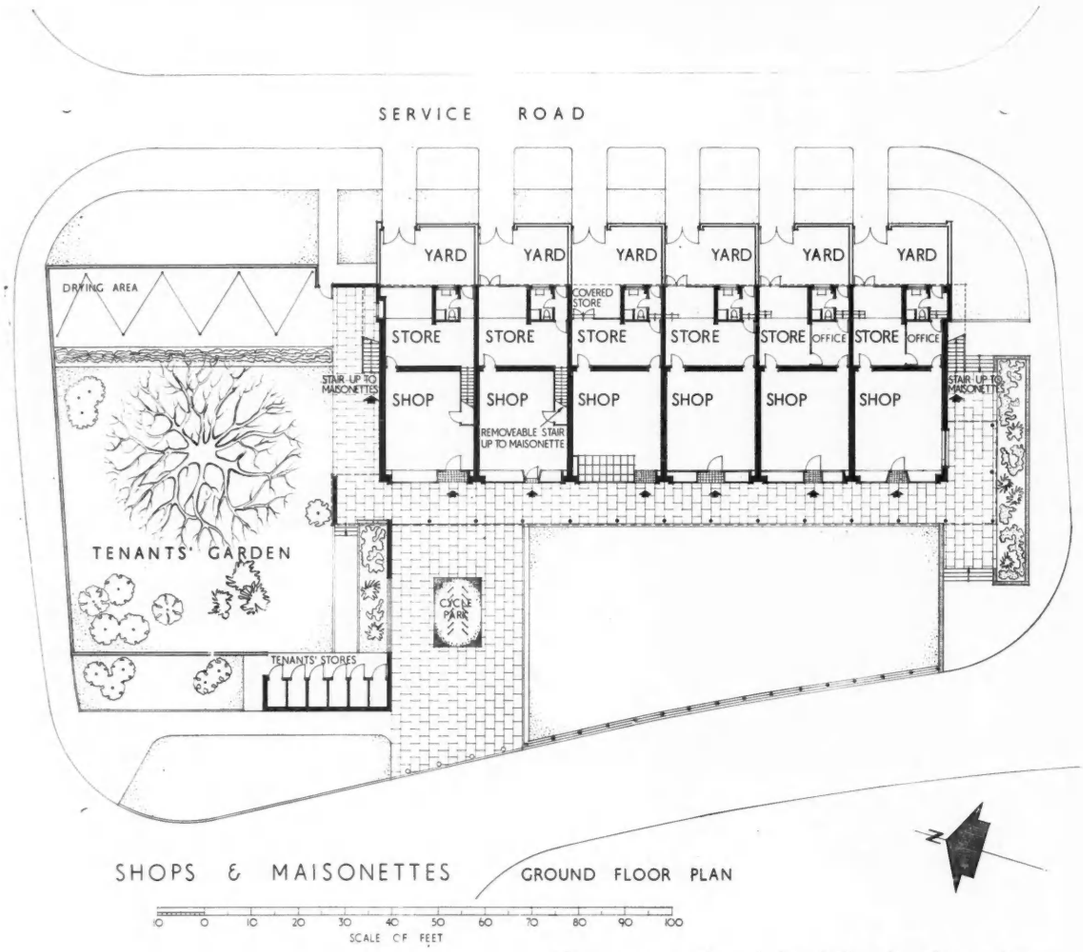
AT the end of the last war, the Borough Councils of Mitcham and Sutton and Cheam and the Urban District Council of Merton and Morden were among the many local authorities who realised that, since their own areas were almost completely built-up, they would be forced to build dwellings in areas on their more rural outskirts. The three authorities, therefore, separately approached the Banstead Urban District Council with a view to obtaining land for the erection of houses.

Many problems arose from this proposal that the three local authorities should build on land outside their areas, but the Ministry of Health indicated that, if the three authorities could share any available land, approval would be forthcoming.

In August, 1950, the authorities were able to go ahead with joint preliminary discussions. There were many legal and practical difficulties and a joint committee was formed to deal with these. This committee had its first meeting in May, 1951, armed with ample delegated powers to proceed with the necessary work. Many further difficulties, inevitable in a proposal

Three-storey flats on the left, shops and maisonettes beyond


JOINT HOUSING SCHEME PRESTON HAWE · TADWORTH · SURREY
FOR THE BOROUGHS OF MITCHAM AND SUTTON & CHEAM AND THE URBAN DISTRICT OF MERTON & MORDEN
F. FLATS
SH. SHOPS & MAISONETTES
C.C. FUTURE COMMUNITY CENTRE
MANOR HOUSE
GUARD POINT
G LOCK-UP GARAGES
P POND
EARTHWORKS
ARCHÆOLOGICAL FINDS
PROPOSED SCHOOL SITE
RECREATION GROUND
EXISTING ALLOTMENTS
PROPOSED ALLOTMENTS
MERLAND RISE
CAROLDON ROAD
PROPOSED ROUTE OF THE LETHERHEAD
BURCH HEATH
MERTON & MORDEN
SUTTON & CHEAM
MITCHAM
PENROSE WAY
COPLEY WAY
SCALE OF FEET



The average price of the shell only of one shop with complete maisonette over was £3,444

Shops and maisonettes with covered approach and individual but co-ordinated fronts

so unique in character, had to be overcome, but in June, 1953, work commenced, and the scheme has now been completed.

Layout.—The layout of the scheme presented to the architects more problems than usual.

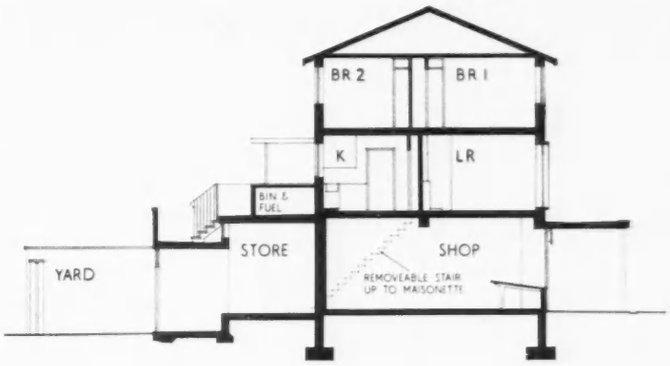
All the fine trees on the site were retained, and were cut and treated so as to give them maximum life together with good appearance.

The necessity for preserving the ancient earthworks and archaeological remains at Preston Hawe, and the existence of part of the main site road and sewer work before planning was commenced, were among the factors which imposed limitations on the layout.

Excavations on the site of the medieval manor were proceeding while the architects were preparing their layout, and from time to time modifications had to be made to accommodate the discoveries which were made.

The architects would have preferred to introduce larger blocks of houses, but the clients imposed an upper limit of six houses to one block. It was also the architects' wish to include blocks of flats of seven or more storeys, to give unity and scale to the scheme, but this was overruled by the local authorities and the County Council. However, the local authorities were prevailed upon to allow three-storey flats, to relieve the monotony of the two-storey semi-detached houses which they had originally requested, and a three-storey block of shops with maisonettes over was also included, and placed in a position which closes a vista along the main site road, providing an attractive focal point of the scheme.

Drainage.—There being no surface water drainage system in the district, an alternative method of disposing of surface water had to be found. A normal system of soakaways would have saturated the ground after a heavy storm,

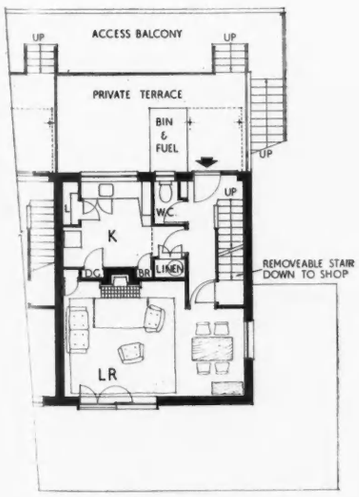


SHOPS & MAISONETTES TYPICAL CROSS SECTION

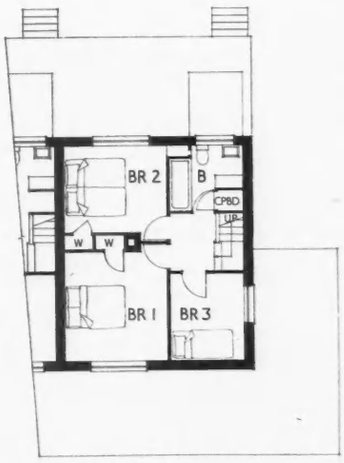
but a solution was found in the provision of large " tunnel " soakaways, running horizontally through the chalk subsoil, which in many places was found to be about 70 ft. below the surface. During a heavy storm the tunnels fill with water, which slowly percolates through the chalk, thus obviating saturation of the subsoil.

Houses.—The majority of the houses were designed to the standards shown in " Houses 1952 " but a number of dwellings had to be planned with larger room areas. The proportions of these better houses required by the three constituent authorities varies, as did the proportions of two- and three-bedroom houses. The final provision of houses is as shown in the Table below.

Authority	" Houses 1952" Standards			Higher Standard			Totals both Grades
	2-BR	3-BR	Total	2-BR	3-BR	Total	
Mitcham ...	51	69	120	32	32	64	184
Sutton and Cheam ...	22	61	83	39	54	93	176
Merton and Morden...	52	61	113	28	31	59	172



FIRST FLOOR PLAN



SECOND FLOOR PLAN

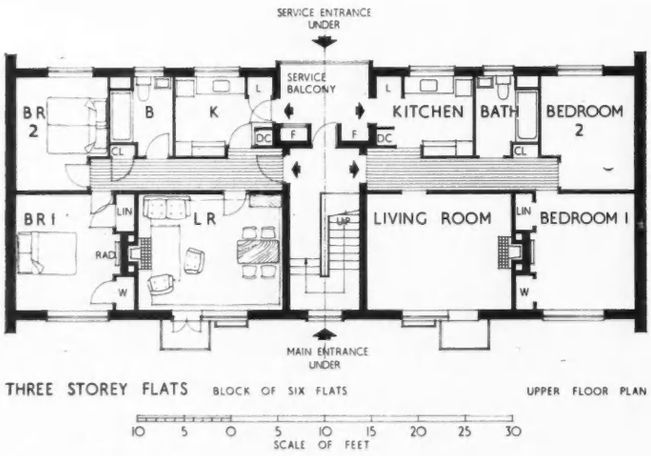
SHOPS & MAISONETTES MAISONETTE PLANS

After considering the various possible types of access to houses, the Joint Committee was emphatically in favour of " tunnel " access. On flat sites the three-bedroom five-person houses were planned with party walls centrally over the tunnel, but where the site slopes and blocks were stepped, all the space over the " tunnel " was thrown into one house, giving three double bedrooms.

All houses have timber windows, and five types of facing bricks were used, some of the cheaper ones being cement painted. Roofs were covered with dark brown " double Roman " interlocking tiles.

Flats.—The Boroughs of Mitcham, and Sutton and Cheam were each provided with 48 two-bedroom flats, and Merton and Morden Urban District Council with 54. Since the tenants have no individual gardens, they were provided with well screened drying grounds as well as drying cupboards, and all the flats face on to pleasant open spaces. Access is by one staircase to every six flats, and " front " doors to flats are directly off this staircase. The staircase also

Three-storey flats



The average price per flat was £1,607 or 45s. 8d. per foot super

Joint Housing Scheme, Tadworth, Surrey

opens on to a service balcony on each floor, which in turn serves kitchen doors. The flats are mainly in blocks of twelve dwellings, and a variety of external finishes has been used, some blocks being entirely brick in two colours, while others are rendered with a finish of spar chippings and dark brick gable end walls. All blocks have "double Roman" tiles similar to those on the houses.

Shops and Maisonettes.—The block of six shops, with maisonettes over, which belongs to the UDC of Merton and Morden, was placed in a position which is easily accessible from all parts of the site.

The shop fronts, facing almost south-west, are protected by a deep canopy, and were all designed by the architects. Though each shop front was designed to the individual requirements of the tenant, using differing materials and proportions, unity was achieved. The planning at the rear of the shops was such that the shopkeepers could arrange the accommodation to suit their needs. Possible variations include a large enclosed store, or a smaller store and an office with clerestorey lighting and ventilation. Some of these variations are shown on the ground-floor plan of the block. Arrangement was also made for a staircase from the shop to the maisonette, which could be installed or removed at will. Where the staircase was not installed, the opening in the first floor was made up with precast concrete slabs.

Access to the maisonettes is gained from a balcony at the rear, and each maisonette has its own private terrace.

The block has a low pitched roof with a mineral felt finish, and the first floor is of concrete, while the second is timber.

Landscaping.—Forecourts are unfenced and it is hoped that the grass here will be kept closely mown, leaving that round the mature trees longer.

Miss Sylvia Crowe, FILA, acted as landscaping consultant to the architects, and a generous scheme of planting was included in the contract.

Cost.—The contract figure for roads and sewers was £108,573, and the total of the contract figures for the erection of 532 houses, 150 flats, six maisonettes and six shops, was £1,000,972.

The Medieval Manor at Preston Hawe.—Prior to 1952 the only features of the Manor of Preston which were known were a large square earthwork, a larger earthwork enclosing it on three sides, and a circular ditched mound, but the subsequent excavations, directed by Brian Hope-Taylor, FSA, for the Ancient Monuments Inspectorate of the Ministry of Works, showed a uniquely complete picture of a medieval manor.

The pond, shown on the layout drawing in the path of the proposed Leatherhead-Croydon road, proved to be at the entrance to the manor, and there was across it a causeway with a guard point at each end.

The earthworks have been reliably dated by means of pottery, etc., at *c.*1170, while the discoveries made enabled a complete and detailed picture of the medieval manor to be built up, and gave a good idea of its history from the late twelfth to the early fourteenth century A.D.

Sub-contractors and suppliers:

532 *Houses:—*

Electrical installation, Phoenix Electrical Co., Ltd.; roof tiling, Wadcrete, Ltd.; thermoplastic floor tiles, Neuchatel Asphalte Co., Ltd.; tree treatment, Southern Tree Surgery; bricks, London Brick Co., Henry J. Greenham, Ltd., Sydney A. Hunter, Ltd., W. T. Lamb and Sons, Ltd.; windows, Rippers, Ltd.; precast concrete and precast stone, Joseph Mears, Ltd.; fires, radiators, cylinders, General Light Castings, Ltd.; fireplaces, B. Finch and Co., Ltd.; sanitary fittings, H. and C. Davis and Co., Ltd.; doors, Evos, Ltd.; ironmongery, H. and C. Davis and Co., Ltd.; kitchen cabinets, Linnards, Ltd.; precast manholes, H. B. Concrete Co., Ltd.; osier panels, W. R. Farman, Ltd.; paint, Hadfields (Merton), Ltd.; roads and sewers, G. S. Faulkner and Sons, Ltd.

This contract was carried out by Carlton Contractors, Ltd.

150 *Flats:—*

Hollow tile floors and stairs, Helical Bar and Engineering Co., Ltd.; electrical installation, Phoenix Electrical Co., Ltd.; iron balustrading, Light Steelwork (1929), Ltd.; Accotile flooring, Neuchatel Asphalte Co., Ltd.; planting, J. Cheal and Sons, Ltd.; radio installation, E.M.I. Sales and Services, Ltd.; bricks, Henry J. Greenham, Ltd., Sydney A. Hunter, Ltd.; Dricrete walling, Erith Construction Co., Ltd.; steel door frames, John Thompson Beacon Windows, Ltd.; boilers, fires and surrounds, Lewis and Co. (Balham), Ltd.; sanitary fittings, G. L. Haddon and Co., Ltd.; artificial stone, Joseph Mears, Ltd.; doors, Yelverton Dawbarn Bros., Ltd.; ironmongery, Nettlefold and Moser, Ltd.; kitchen cabinets, E. and H. Grace, Ltd.; windows, John Thompson Beacon Windows, Ltd.; osier screens, W. R. Farman, Ltd.; precast manholes, H. B. Concrete Co., Ltd.; paint, Hadfields (Merton), Ltd.

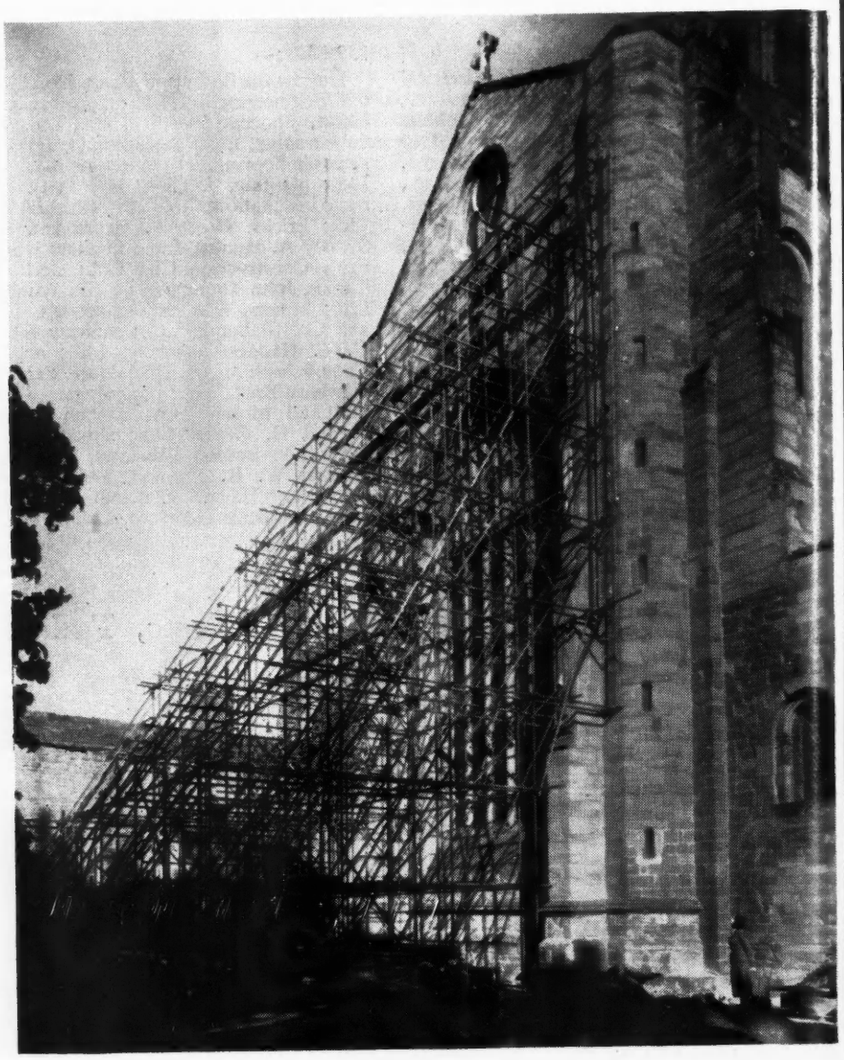
Six shops and maisonettes:—

R.C. floors and stairs, F. Bradford and Co., Ltd., Square Grip Reinforcement Co.; electrical installation, Phoenix Electrical Co., Ltd.; iron balustrading, Light Steelwork (1929), Ltd.; bituminous roofing and paving, D. Anderson and Son, Ltd.; thermoplastic tiles, Neuchatel Asphalte Co., Ltd.; bricks, Henry J. Greenham, Ltd.; windows, John Thompson Beacon Windows, Ltd.; fires, H. and C. Davis and Co., Ltd.; fire surrounds, B. Finch and Co., Ltd.; artificial stone surrounds, Atlas Stone Co., Ltd.; steel windows, John Thompson Beacon Windows, Ltd.; flush doors, Evos, Ltd.; ironmongery, H. and C. Davis and Co., Ltd.; kitchen cabinets, E. and H. Grace, Ltd.; larder shelves, Malacarp Terrazzo Co., Ltd.; precast steps, Atlas Stone Co., Ltd.; paint, Hadfields (Merton), Ltd. These two contracts were carried out by Joseph Cartwright, Ltd.

Joint Housing Scheme, Tadworth, Surrey

Semi-detached and terraced types, average price £1,390 or 32s. 1½d. per ft. super

Repairs to Hereford Cathedral



Scaffolding acting as shoring on south face

Architect:
E. A. ROISER, LRIBA, FRSA
Architect to the Dean and Chapter, of Ellery Anderson Roiser & Falconer

Consulting Architect :
W. H. RANDOLL BLACKING, FSA, FRIBA

Consulting Engineers :
CLARKE, NICHOLLS and MARCELL

Builder :
WALTER DAVIS

OVER a period of years it had been found that there was a progressive movement outward in the south wall of the transept. It was found that the rate of movement was increasing, that fissures existed in the walls, that the vaulting ribs had become depressed and the curve of the vaulting panels adjacent to the south wall was inverted, and that the vaulting panels adjacent to the south wall were not resting upon the wall ribs. After investigation it was found that whereas the foundations of the south wall were taken down to gravel at a depth of 7 ft. below ground level, the foundations of the buttresses, which were a later addition, were only taken down to a depth of 3 ft. 6 in. and rested upon soft made-up ground.

The conclusion reached was that the mass weight of the buttresses was increasing weaknesses in the old Norman and later walling.

A decision was reached to underpin the feet of the buttresses linking the underpinning with a reinforced concrete retaining and encasing wall which, as well as assisting in supporting the buttresses, joined the new foundations to each buttress and strengthened the walling of the transept itself.

Three main steel beams were inserted as continuous spliced beams with smaller beams to support the base of the turret.

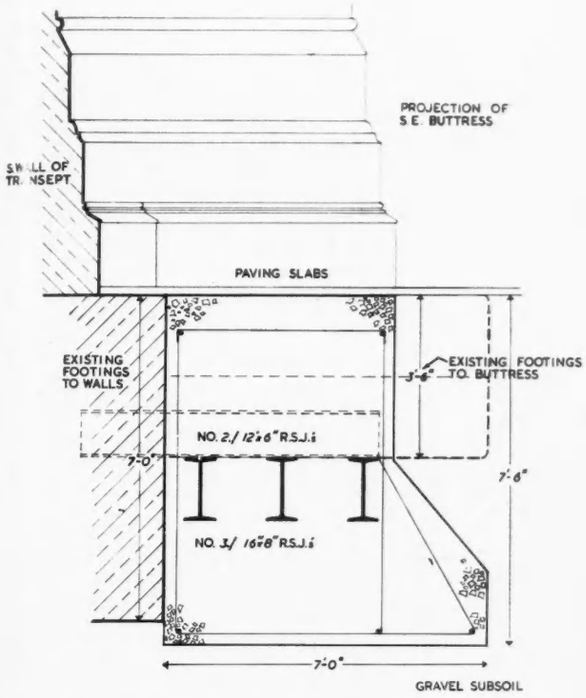
Owing to the proximity of the wall of the Bishop's Cloister all work had to be carried out in the Chapter House Yard.

For the second stage of the work reinforced concrete linkage beams were formed at the apex of the transept above the vaulting, with free diagonal beams to act as ties and " T " headed beams in the core of the walls to strengthen the mass of the walls.

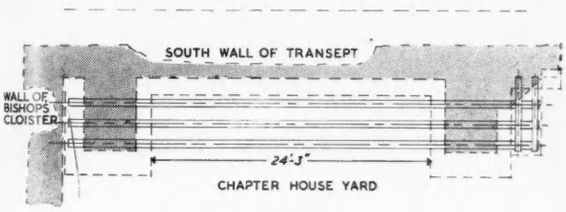
The third stage consisted of repairing and rebuilding the loose and distorted vaulting ribs and panels and redecorating the vaulting bosses, which were found to have traces of the original colours, which have been followed.

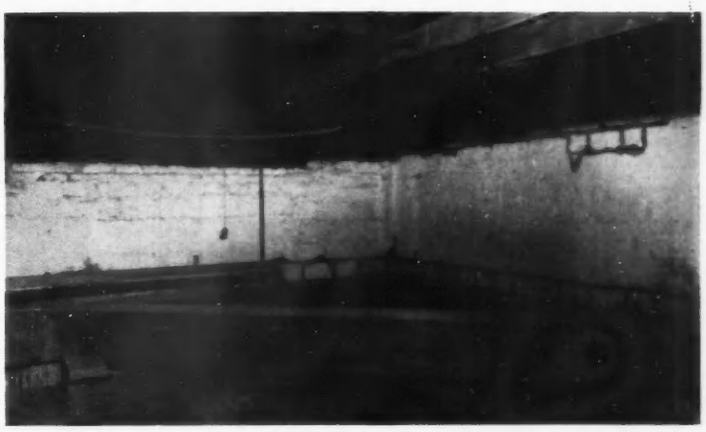
The fourth stage consists of reinforced tying beams at various levels between floor level and vaulting level.

It was found necessary for extensive shoring and supporting to be carried out externally and internally, and this was provided by steel scaffolding and timbering. The shoring and scaffolding was by Messrs. W. J. Furse & Co., Ltd.

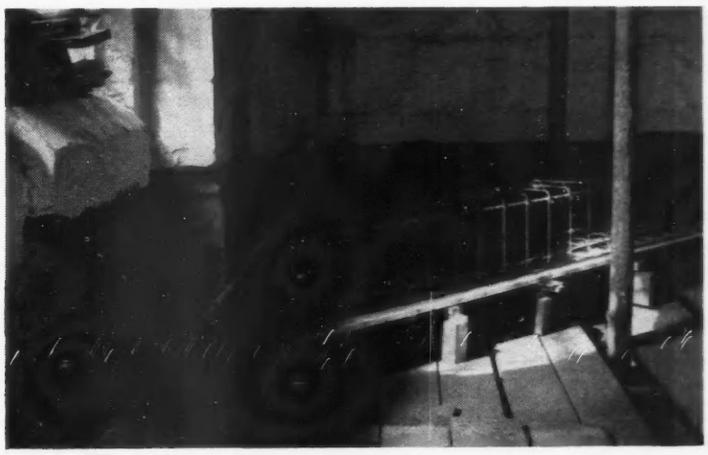


SECTION THROUGH R.C. FOUNDATIONS.

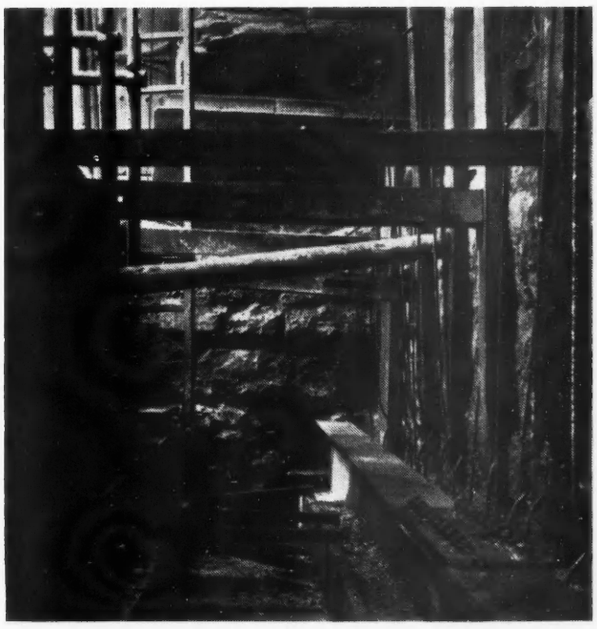




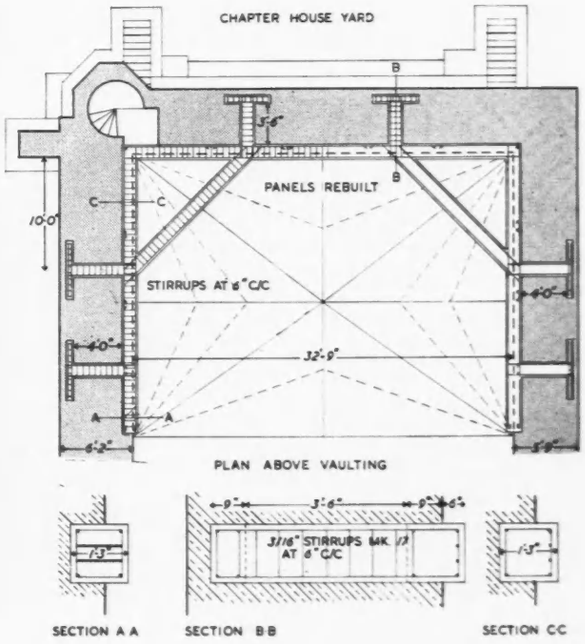
South-east corner of transept, above the vaulting, where the greatest weakness occurred, showing the completed wall and diagonal beams



The south-west corner showing the reinforcement, before casting, with the major portion in the thickness of the walls



Main steel beams underpinning the buttresses



Technical College, Poole, Dorset

Architect:
ENRICO de PIERRO, BArch, ARIBA

Consultants:

Structural:
L. L. KENCHINGTON, AMIStructE

Electrical:
BARLOW, LESLIE & Partners

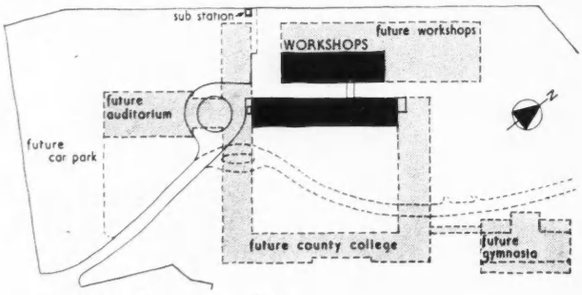
Heating and Plumbing:
HENRY G. GODDARD, FRIBA

Quantity Surveyors:
VENNING & HOPE

Clerk of Works:
ARTHUR WHITEHEAD

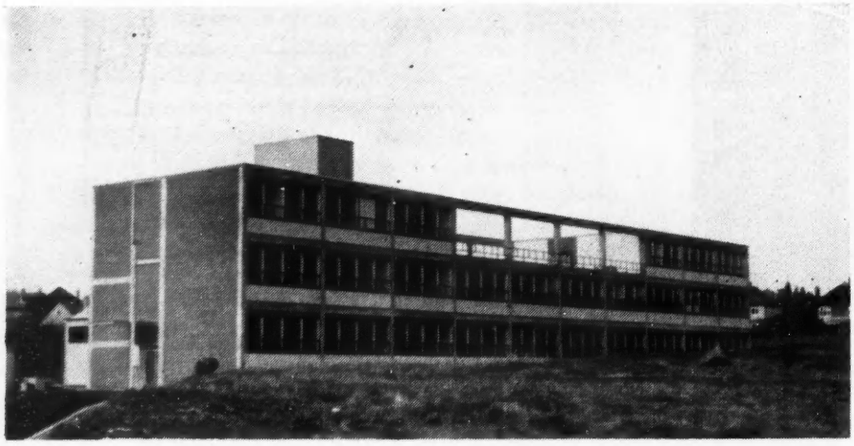
Builders:
J. H. WILSON & Son, Ltd.

South elevation

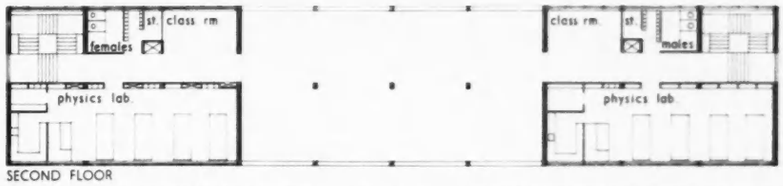


SITE PLAN to a scale of 1/3000

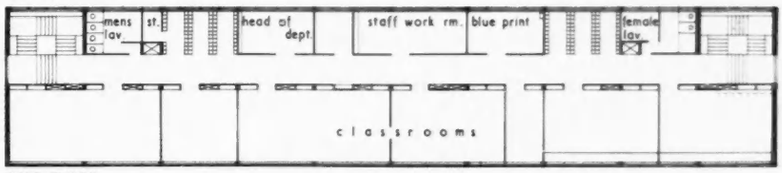
IN the open competition in 1951 for Poole College of Further Education 153 designs were submitted, and in their report the assessors drew attention to the general standard of planning which they said " was of consistently high quality." The winning design was by Enrico de Pierro who later joined in a partnership, since dissolved, with Mr. Henry Elder, MBE, FRIBA. The first part, the Technical College, was required originally to be built for £120,000, this was reduced by the client to £80,000, and by alterations and omissions this estimate was reached. It is of interest to know that the final figures for this first part have, in fact, come out slightly below that sum.



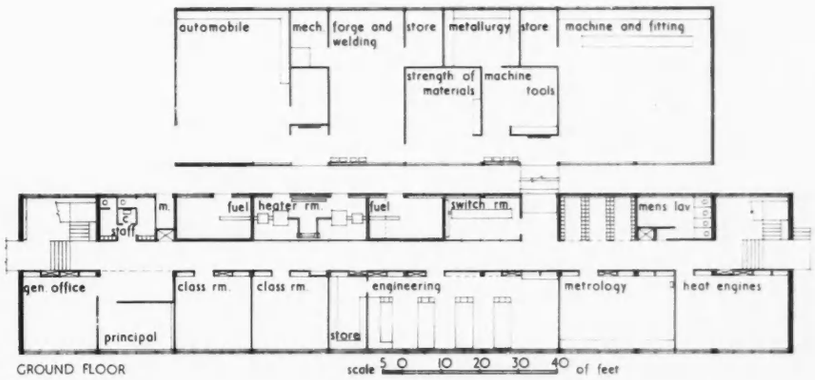
View from the south



SECOND FLOOR



FIRST FLOOR



GROUND FLOOR

scale 5 0 10 20 30 40 of feet

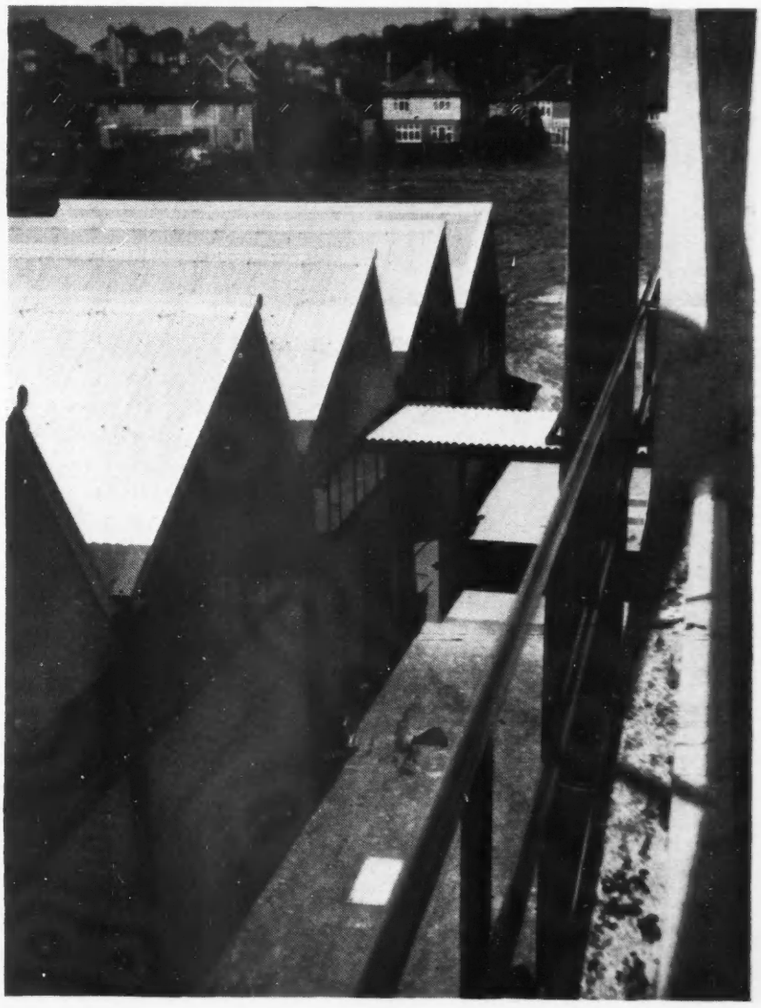
SCALE OF PLANS

1 in. = 48 ft.

The first instalment now completed consists of the Science Department only, including laboratories and workshops. Future instalments will include Building, Art and Commerce Departments, and County College, as well as Auditorium and Gymnasia.

A temporary boiler room is included on the ground floor in size sufficient only for the present building. The main boiler rooms will be erected with the instalment immediately following. The electrical switchroom and supply, is, however, that required for the whole scheme.

The construction of the building is extremely simple. A reinforced concrete frame, Stahlton prestressed



The workshops from the second floor of the main building

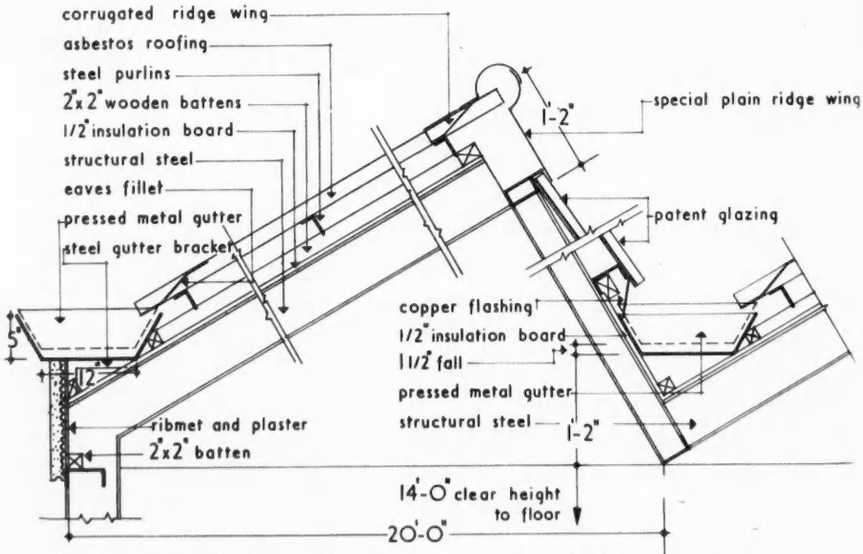
Staircase fenestration

floors, with brick panel infilling and block internal partitions. The flat roof is covered with bituminous felt. The windows are steel and painted. Interior walls and ceilings are plastered, and the floors are of plastic tile. The workshop has a simple north light sawtooth roof covered in corrugated asbestos.

Heating is by hot air circulated by units in each room, thermostatically controlled fans blowing air past hot water pipes which are supplied from the main boiler room.

The special feature of this building is the general exposure of the services. As the subjects of heating and electricity are taught in the college, the services form part of the teaching equipment. They are all painted the British Standard colours for identification.

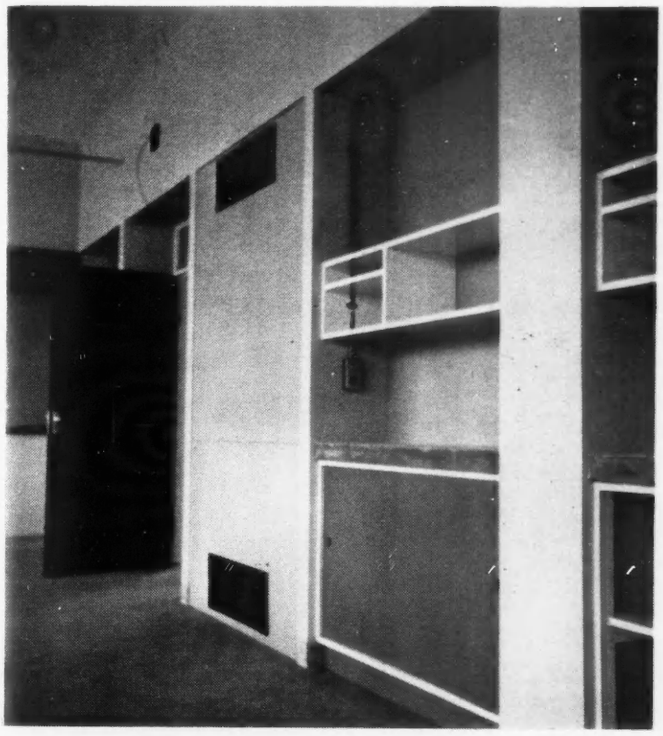
The boiler and electric switch rooms are both glazed along the main corridor and were carefully executed, and are very attractive features. A saving in cost was made by the exposure of the services, and the contractors appreciated this treatment and took special care with their work. Some of the services of necessity pass through ducts, but these are all made accessible. The corridor ceilings consist of hinged panels throughout their length.



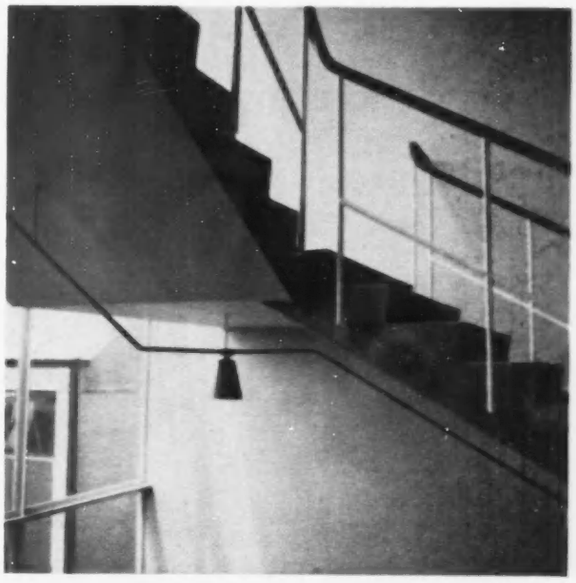
DETAIL OF ROOF OF WORKSHOP to a scale of half-inch to a foot

Sub-contractors and suppliers:—

Concrete frame and site work and drains, J. H. Wilson and Son, Ltd.; Stahlton floors, Costain Concrete Co., Ltd.; structural steel, J. R. Smith and Sons; bituminous roofing, Standard Felt Roofing Co., Ltd.; plumbing and heating, Mumford, Bailey and Preston, Ltd.; electrical, F. H. Wheeler and Co., Ltd.; sanitary fittings, John Bolding and Sons, Ltd. ; windows, patent glazing, and door frames, The Crittall Manufacturing Co., Ltd.; floor finishes, Semtex, Ltd.; doors, Jayanbee Joinery, Ltd. ; downpipes, J. and R. Griffiths; balustrading, Maxted Bros.; venetian blinds, Tidmarsh and Sons; hardware, Kennedy's of Southampton; paint, Mander Bros., Ltd.

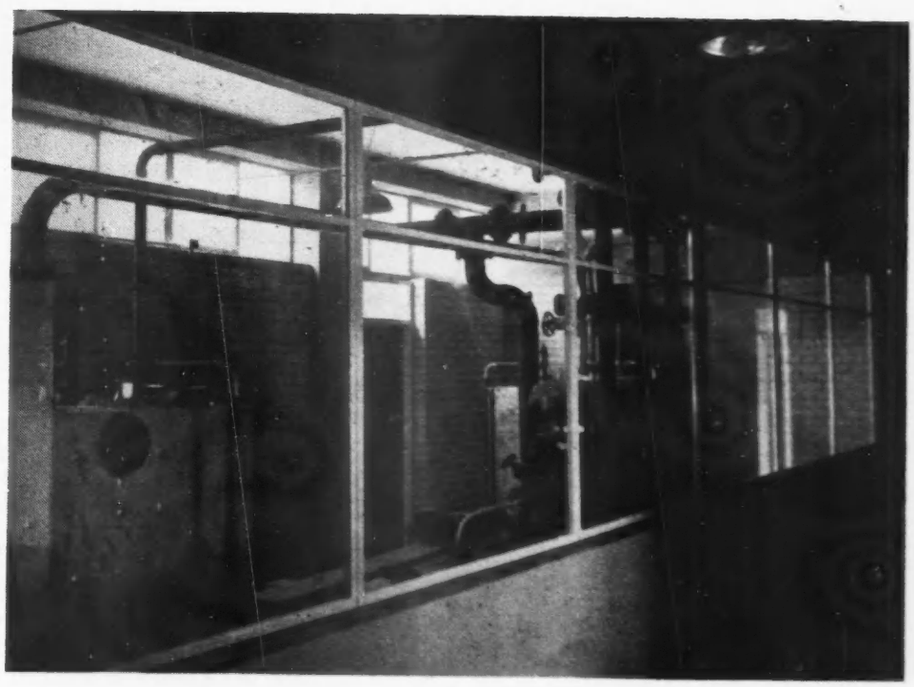


Typical classroom internal wall unit containing doorway, heating unit and fitted furniture



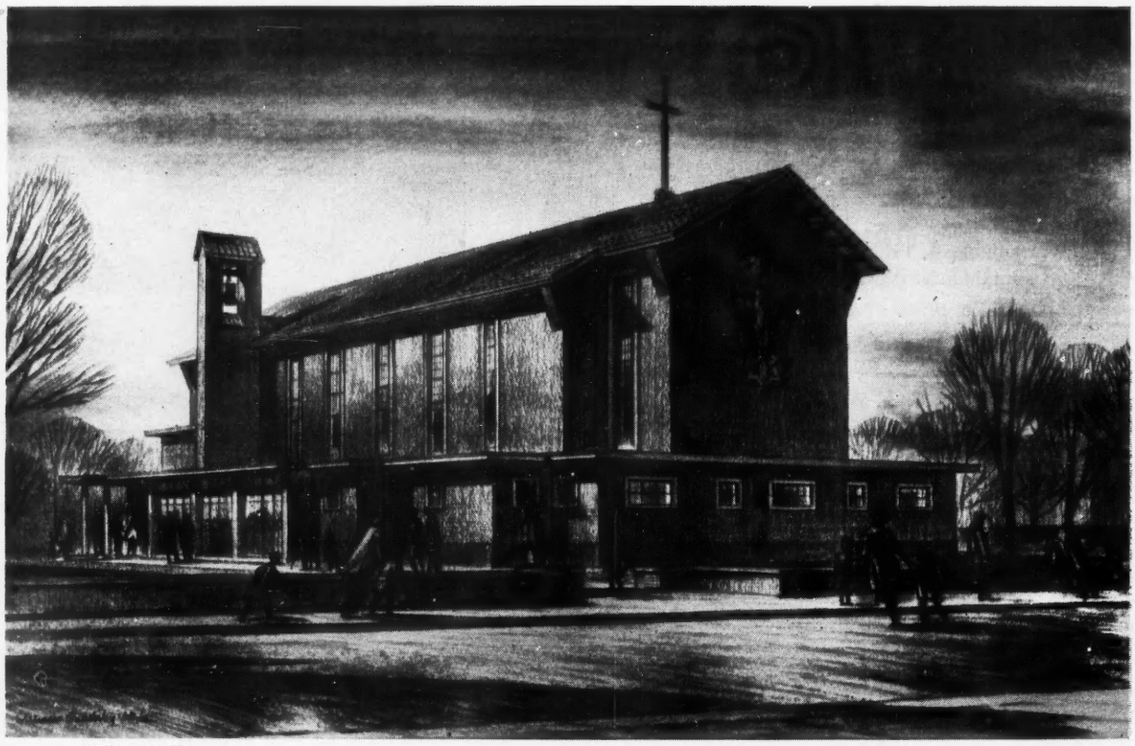
Another example of exposed services; the electrical conduit is everywhere exposed

Technical College, Poole, Dorset



All services are part of the instructional equipment of the college; here the heater room has a glass wall to the corridor and great attention has been paid to the layout

ARCHITECTURE AT THE RA SUMMER EXHIBITION, 1956



Drawn by William Suddaby.

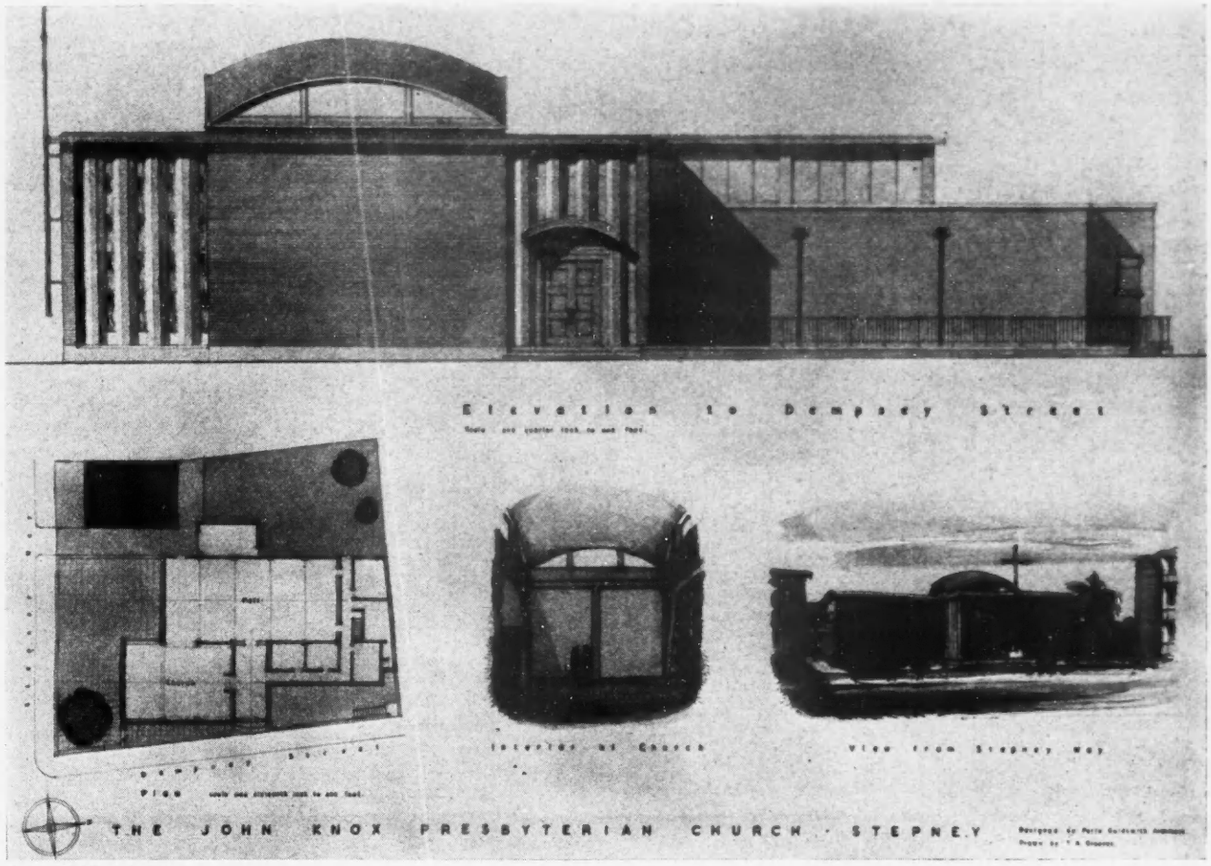
ST. ALPHEGE, EDMONTON. Sir Edward Maufe, RA, architect.

Drawn by John Harvey.

ST. NICHOLAS COLE ABBEY: New Terrace and Approaches. Arthur Bailey, OBE, FRIBA, architect.

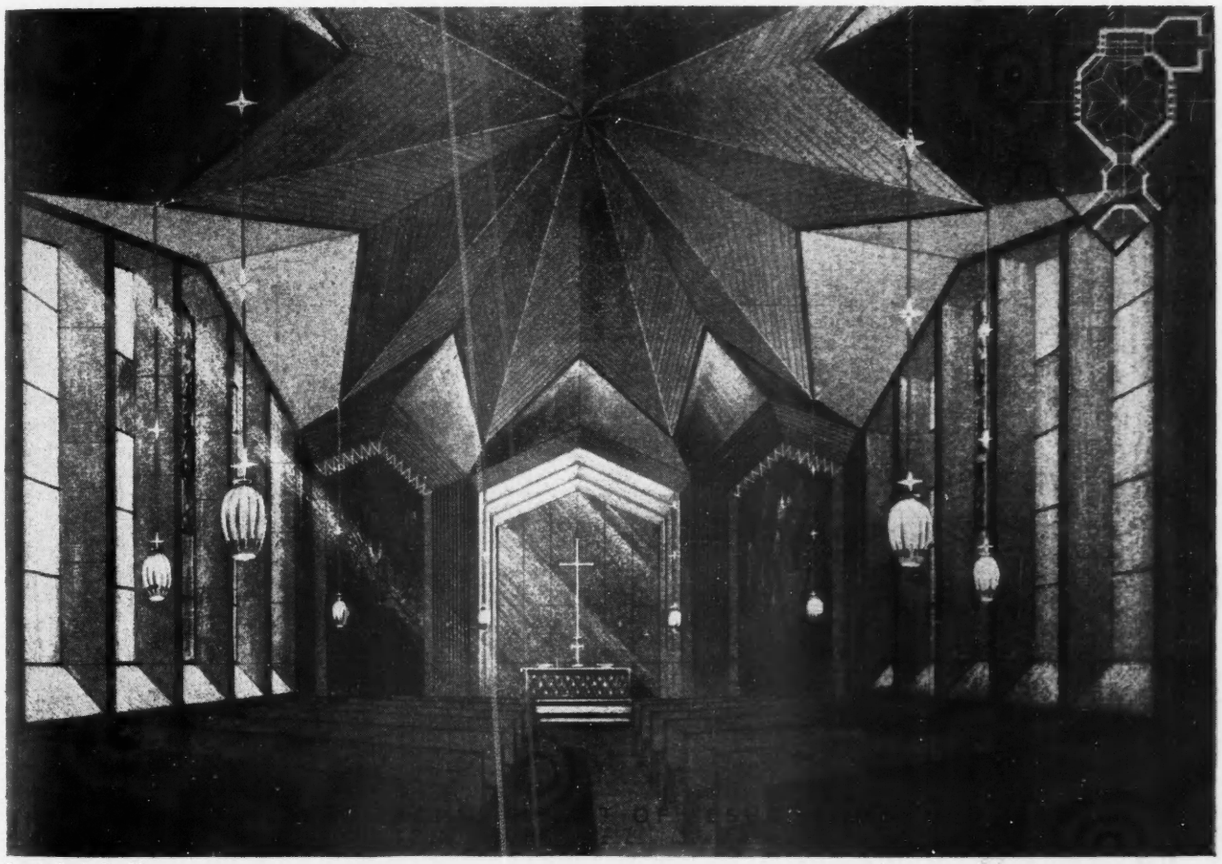
10 1956

THE B



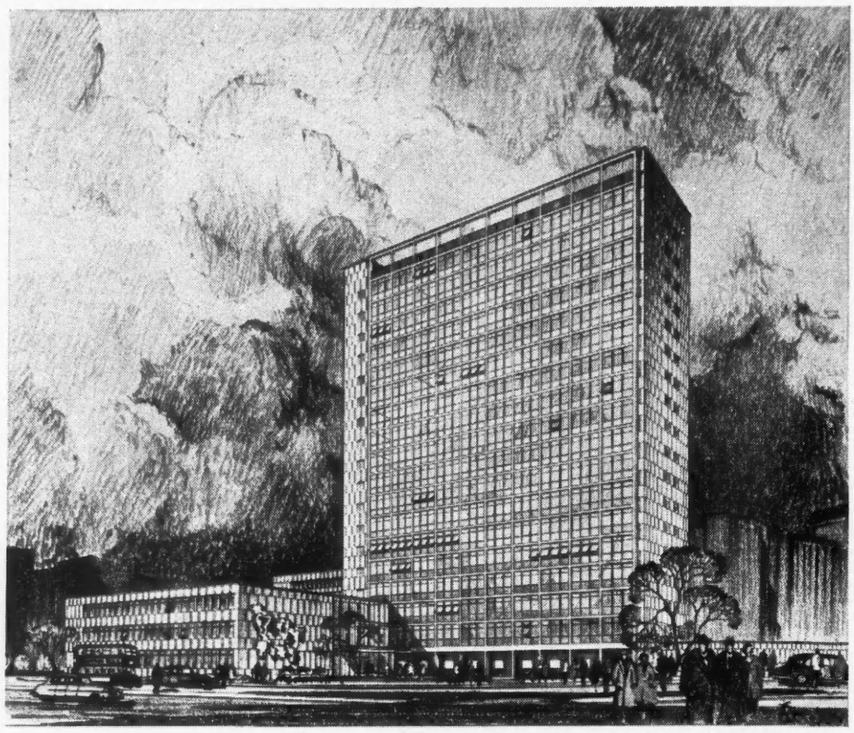
Drawn by T. A. Greeves.

THE JOHN KNOX PRESBYTERIAN CHURCH, Stepney. E. Felix Goldsmith, ARIBA, architect.



Drawn by J. Strubbe.

THE CONVENT of the Sacred Heart of Jesus and Mary, Dockenfield. John A. Strubbe, ARIBA, architect.



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MK119
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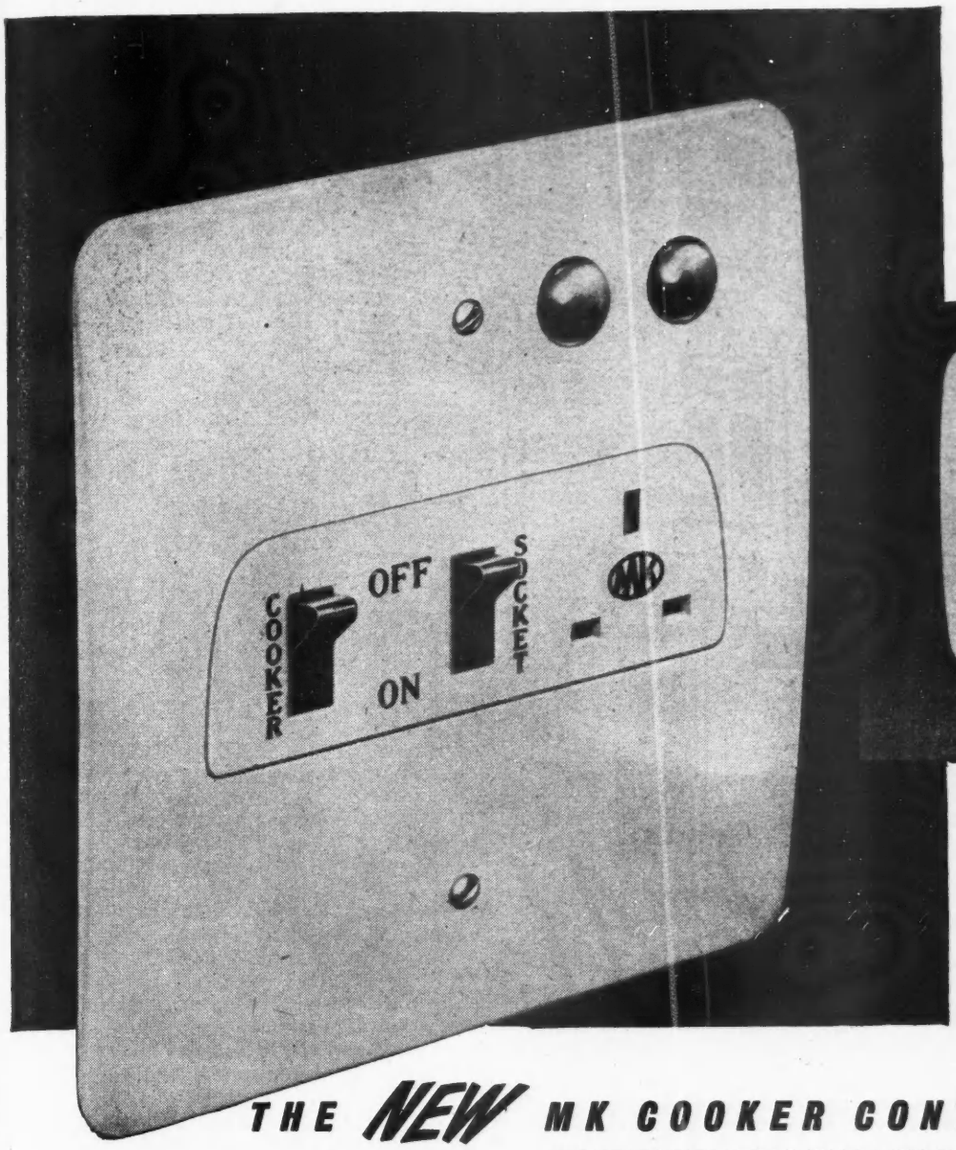
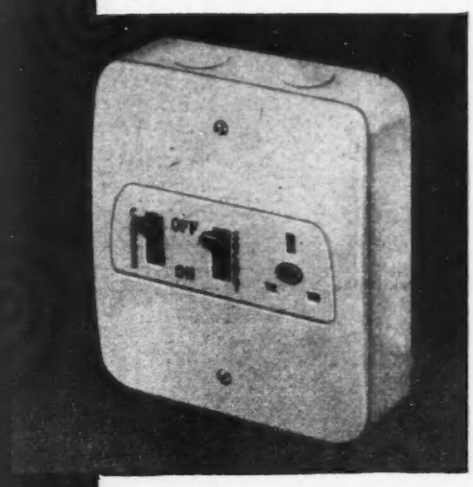
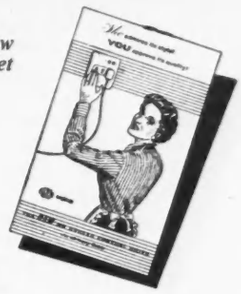




Send for new colour leaflet 236.



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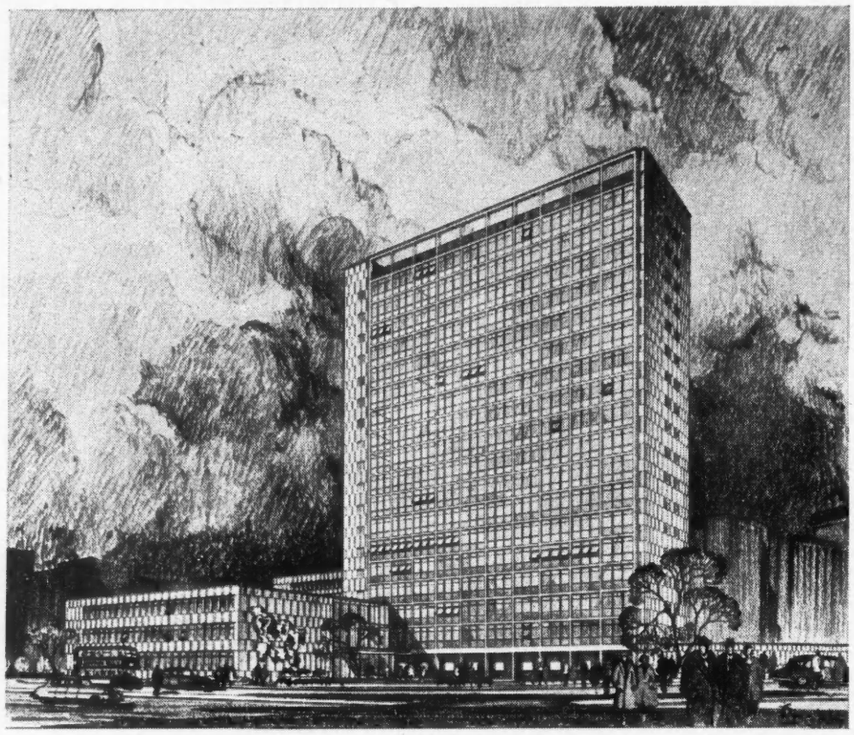

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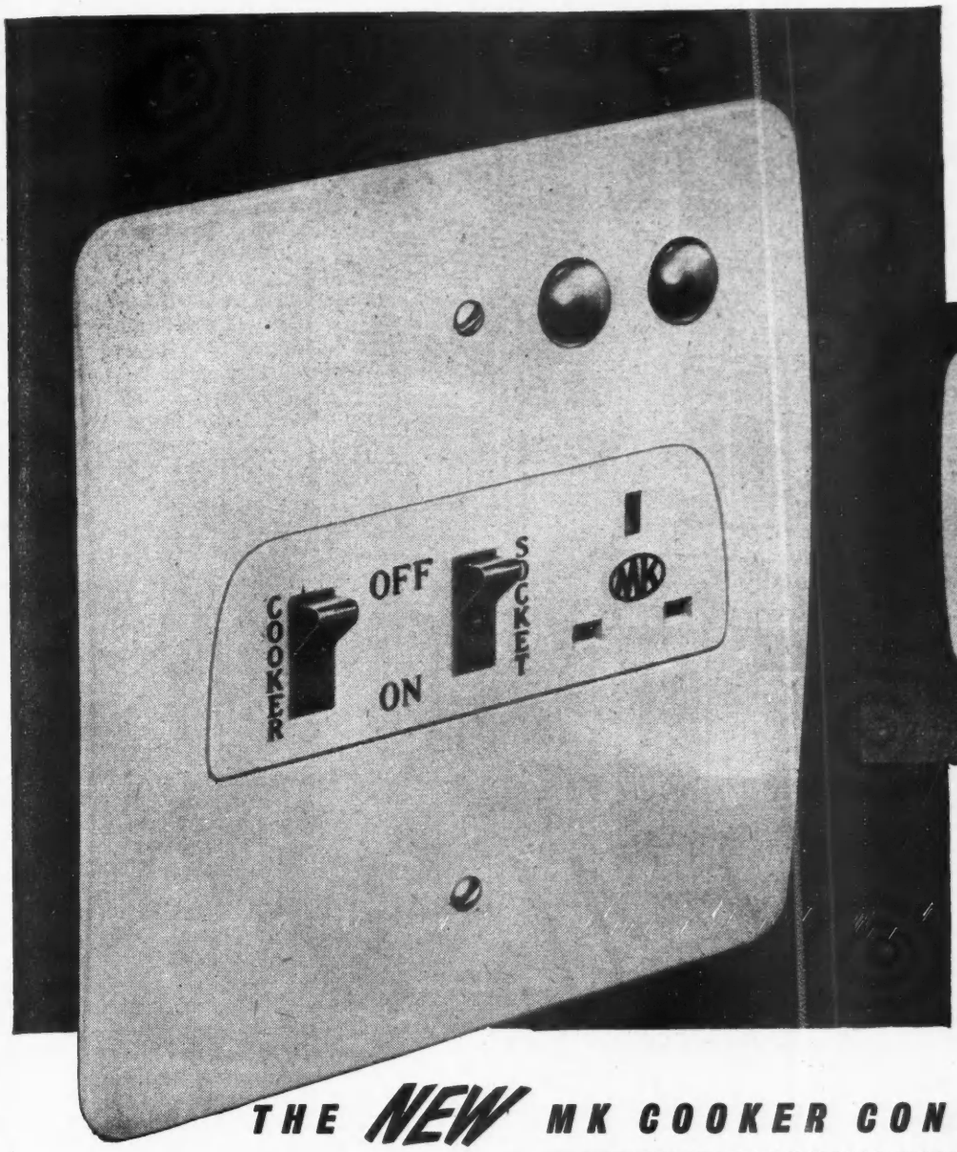

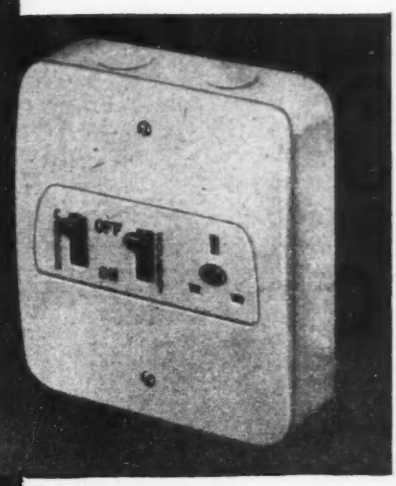

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The Structure of Local Government

SCOPE OF THE WHITE PAPER

A WHITE Paper on "Local Government—Areas and Status of Local Authorities in England and Wales," was presented to Parliament on July 31 by Mr. Duncan Sandys, Minister of Housing and Local Government. The Paper, which deals with the general problem of the structure of local government and, in particular, with arrangements for reviewing and altering local authority areas and status, is summarised below.

Present Structure.—The pattern of local government in England and Wales was established on its present lines by the Local Government Acts of 1888 and 1894. Two separate systems were set up—one for the county boroughs and another for the counties. In the county boroughs a single authority was entrusted with the administration of all local government services in their area. The counties were organised on the so-called "two-tier" system, under which responsibility for some services lies with the county council and for others with the councils of county districts (non-county boroughs, urban districts and rural districts).

Existing System Needs Bringing Up to Date.—"The test of any system of local government in this country must be whether it provides a stable structure, capable of discharging efficiently the functions entrusted to it, while at the same time maintaining its local democratic character."

"A fundamental alteration of the existing structure could be justified only if it had shown itself to be incapable of meeting present-day needs. That is not the situation. The present system has, over many years, stood up to the severest tests. It responded well to the abnormal demands made on it during the war and, despite certain weaknesses, has on the whole shown itself capable of adaptation to changing conditions. Moreover, it is firmly established and the local loyalties and civic pride which have grown up around it are a source of strength to local government, which should not be underestimated."

"There is, therefore, no convincing case for radically reshaping the existing form of local government in England and Wales. What is needed is to overhaul it and make such improvements as are necessary to bring it up to date." A number of important changes are necessary:

(i) Entirely new machinery and procedure is required for reviewing local authority areas and status and for recommending necessary changes.

(ii) The principles governing promotions to county borough status need to be revised.

(iii) The pattern of local government in conurbations needs to be improved with a view to creating larger units of administration and facilitating the handling of common problems.

(iv) The number of unduly small county district authorities should be reduced.

Local Government Commissions

At present there exists no satisfactory means of reviewing the organisation of local government comprehensively over wide areas and of determining what changes should be made. It is, accordingly, proposed to create two Local Government Commissions, one for England and one for Wales. Their task would be to make recommendations to the Minister about:

(i) the creation and extension of county boroughs;

(ii) any necessary alterations in county boundaries; and

(iii) the organisation of local government in "conurbations."

After studying the problems on the spot and consulting local opinion, the Commissions would make recommendations which would be published. The Minister would submit to Parliament Orders giving effect to these recommendations, with such modifications as he might think desirable.

This new machinery would obviate the necessity for promoting Private Bills, a procedure which "in practice has proved unsatisfactory, costly and often abortive."

Standstill after Review.—After the Commissions' reviews are completed and the Orders have been confirmed by Parliament there should be a standstill on further changes for a substantial period. (The local authority associations have suggested 15 years.)

County Boroughs.—One of the first tasks of the Commissions would be to consider applications of authorities for promotion to county borough status. At present no council may promote a Private Bill to secure county borough status, unless it has a population of at least 75,000. It is now proposed that (outside the conurbations), unless the circumstances are exceptional, this figure should be raised to 100,000. Furthermore, it is stressed that, apart from the applicant's own fitness for promotion, "consideration must also be given to the consequences which it would have for the county or counties concerned."

Multiplicity "Undesirable"

Within a conurbation, where a multiplicity of autonomous local authorities is undesirable, the size of population required for promotion to county borough status should be higher than elsewhere, and should be at least 125,000.

The adoption of these higher standards of population for promotion to county borough status does not imply that existing county boroughs with lesser populations (of which there are quite a number) should necessarily be demoted. "To deprive a county borough of its independent status would be a most serious step which should be contemplated only where it is plainly necessary for efficient administration."

County Boundaries.—The Commissions should be entitled to recommend changes in county boundaries where they are satisfied that this is desirable. Moreover, in exceptional cases, the Commissions should not be precluded from recommending the amalgamation of one county with another or the transfer of territory.

Conurbations.—Local government in the large built-up areas or "conurbations" is at present divided between numerous authorities of different types and sizes (see below); and this is not conducive to efficiency or economy.

The pattern of administration in these areas needs to be simplified by reducing the number and variety of local authorities and, where necessary, creating machinery for dealing jointly with problems common to the whole conurbation. The White Paper suggests that authorities of a uniform type might be created throughout a conurbation. These might be county boroughs with joint machinery for the co-ordination of common services. Alternatively, responsibility for those services which require joint action might be given to a directly elected upper tier.

Greater London

Owing to its size and special character, Greater London presents a unique problem.

The proposals in the White Paper do not apply to the structure of local government within the County of London, which is different from any other and calls for special consideration.

Middlesex contains a number of large boroughs which might well qualify for promotion to county borough status. But, if this were to take place, the bits and pieces which remained would no longer constitute a viable unit. Since it is desirable to maintain the existence of the county, as a component of the Greater London conurbation, it is recommended that no promotions to county borough status should be made in Middlesex.

Subject to these reservations, Greater London would come within the scope of the Commission's review, in the same way as other conurbations.

Amalgamation of Small Districts.—Outside the conurbations, the county councils would continue to be responsible for reviewing the areas and boundaries of their county districts. Many are at present too small. There are 700 county districts in England and Wales with populations of less than 15,000, nearly 500 with less than 10,000, and over 200 with less than 5,000.

By amalgamation or otherwise, authorities of reasonable size should be created. This would probably involve amalgamating some non-county boroughs with other districts or with one another; but in so doing, every effort should be made to preserve their identity and the dignities conferred on them by their Charters.

Parishes.—County councils are advised to review parish areas with the object of securing that, wherever practicable, each parish is represented by a parish council. This may necessitate amalgamating two or more parishes or grouping them under a joint council.

Legislation.—In order to set up the machinery and effect the changes proposed in the White Paper, legislation would naturally be needed. Before framing such legislation, the Government will have further discussions with the representatives of local authorities and will consider the views which may be ex-

pressed in Parliament, in the Press, and elsewhere.

Composition of the Larger Conurbations

WEST MIDLANDS

Six County Boroughs (viz.: Birmingham, Dudley, Smethwick, Walsall, West Bromwich and Wolverhampton); nine Non-County Boroughs, nine Urban Districts, forming part of Staffordshire, Worcestershire and Warwickshire.

WEST YORKSHIRE

Six County Boroughs (viz.: Bradford, Dewsbury, Halifax, Huddersfield, Leeds and Wakefield); seven Non-County Boroughs, 20 Urban Districts, forming part of West Riding of Yorkshire.

SOUTH-EAST LANCASHIRE

Seven County Boroughs (viz.: Bolton, Bury, Manchester, Oldham, Rochdale, Salford and Stockport); 15 Non-County Boroughs, 29 Urban Districts, one Rural District, forming part of Cheshire and Lancashire.

MERSEYSIDE

Four County Boroughs (viz.: Bootle, Birkenhead, Liverpool and Wallasey); three Non-County Boroughs, five Urban Districts, forming part of Cheshire and Lancashire.

TYNESIDE

Four County Boroughs (viz.: Gateshead, Newcastle, South Shields and Tynemouth); three Non-County Boroughs, six Urban Districts, forming part of Durham and Northumberland.

GREATER LONDON

Three County Boroughs (viz.: Croydon, East Ham and West Ham); 28 Metropolitan Boroughs and City (forming County of London); 18 Non-County Boroughs, eight Urban Districts, forming County of Middlesex; 21 Non-County Boroughs, 15 Urban Districts, one Rural District, forming part of Essex, Hertfordshire, Kent and Surrey.

STAFF PROFIT SHARING

Details of New Scheme

A STAFF profit-sharing scheme has been introduced by Concrete Ltd., the reinforced concrete engineers and contractors, of London. Under the scheme 16 per cent. of net profits, after the deduction of a sum equal to 5 per cent. on the capital employed in the business, will be allocated each year for the benefit of the salaried staff.

Ten per cent. will be distributed in cash and the balance of 6 per cent. used to acquire ordinary shares in the company for employees who have at least six years' service. There are no restrictions on the shares, except that they will be held by trustees for five years before being transferred unconditionally to employees. This will prevent the sale of shares during the first five years. During this time dividends will be paid over to the employees concerned.

It is hoped to extend the share bonus part to hourly paid employees of long unbroken service. The latter already share in the company's prosperity to the extent of bonus payments over and above union rates, and therefore, will not participate in any cash bonus.

Corrosion Meeting

By arrangement with the British Iron and Steel Research Association, The Iron and Steel Institute is organising a "Corrosion Meeting" to be held at its offices, 4, Grosvenor-gardens, London, SW1, on Friday, October 12, commencing at 10 a.m. and continuing all day. The chair will be taken by Dr. H. H. Burton, CBE, president ISI.

INSTITUTE OF BUILDERS

New President's Inaugural Address

IN his inaugural address following his election as President of the Institute of Builders for the year 1956/7 at the Institute's annual general meeting, on July 30, MR. H. S. ODDIE said that the past two years had been momentous years for the Institute. During this period the Registration and Exemption Scheme had been developed and the Board of Building Education established. He continued:

"In my view we have now reached the stage when we should consolidate and seek to build up on the sound foundations which have been prepared, and in doing so we would be well advised to bear in mind the necessity for a crystallisation and clarification of policy. In this connection it is worthy of note that in 1957 a modified Licentiate Diploma Examination will be offered to candidates who have followed a general building course recognised by the Institute under its Registration and Exemption Scheme, and I would ask principals of technical institutions, who have made application for registration, patiently to await the completion of the arrears which have inevitably arisen as a result of a changing and temporarily overstrained administration. As you are aware, the Council have agreed that the education committee shall examine a number of courses relating to building, particularly those of university degree status, so that graduates may be advised as to the additional studies considered necessary for the preparation for the Licentiate Diploma Examination.

"In my view the most important task ahead is for this Institute, as the sponsors of the Board of Building Education, to use its full influence within that body in an endeavour to evolve a clear pattern of education and training for management, which we must all agree to be necessary if we are to attract from the schools and the universities the best types of young men, who are more and more looking to industry for their future.

Stimulating Interest

"Now that a provincial member is once again your president, I hope the result will be to stimulate interest amongst provincial members. During my term of office I shall endeavour, given support, to arrange luncheon meetings in the north, with the main object of recruiting new members. Whilst the number of those seeking entry in the examined grades is healthy, the expanding work of the Institute makes it essential for us to seek the interest and financial support of many more who share our aspirations in seeking to enhance the status and prestige of the master builder. Throughout the country there are undoubtedly many men whose reputation and achievements would entitle them to special case membership of the Institute, and I hope every member and fellow will feel it his duty to propose at least one new member during the next 12 months."

Earlier in the meeting, when proposing the election of Mr. H. S. Oddie to the presidency for 1956/57, the retiring president, MR. F. LESLIE WALLIS, OBE, said he had the utmost confidence in Mr. Oddie's abilities. He had passed the Licentiate Diploma Examination in 1933 and throughout his subsequent career in the Institute had shown he was a man of courage and capability, having a progressive mind and a keen interest in education. "During the past two years of my presidency he has been a tremendous encouragement to me. It is good to feel that someone is pushing you forward and not holding you back."

Expressing his appreciation to all those who had helped him through his two years of office, Mr. Wallis said it was evident by the way he had been received by the Ministry of Education and principals of technical colleges that there was a growing realisation that the Institute was a real live factor in education. The utmost goodwill and support was evident wherever he had been. "I think that by telling people what we are trying to do and taking them into our confidence will gain the Institute much it has lacked in past." The last two years had been arduous ones, but he had thoroughly enjoyed them.

During the subsequent discussion, several speakers emphasised the great need for support for the Institute from master builders above examination age whose educational background and proven competence in practice were such as would enable them to be admitted to membership. In addition it was hoped that more younger men would offer themselves for the Licentiate and Associate Diploma examinations.

Election of Officers

The following officers were elected:

Vice-Presidents: Messrs. G. O. Swayne, FIOB (Guildford); J. Gowing Middleton, FIOB (Great Yarmouth); Harvey G. Frost, OBE, FIOB (Bury St. Edmunds); P. F. H. Wykeham, MC, FIOB (Rugby).

Honorary Treasurer: Mr. F. Leslie Wallis, OBE, JP, FIOB (Maidstone) (Immediate Past President).

In addition to the foregoing the Council now consists of the following:

Past Presidents: Sir George Burt, KBE, FIOB (London); Mr. Basil C. Aldous, JP, FIOB (London); Mr. W. H. Forsdike, CBE, FIOB (Sheffield); Mr. William H. Lee, FIOB (London); Mr. Harold H. Ridge, FIOB (Brighton).

Fellows: G. W. E. Airey, G. E. Beard, H. T. Benzies, C. E. Bollom, J. C. Corben, C. I. V. Curtis, O. T. Hedges, Gerald A. Hill, Laurence J. Holloway, R. Mansell, R. G. Norman, B. H. Rawlings, D. C. C. Roberts, W. W. Sapcote, C. R. Setter, P. G. Spencer, D. A. Wright, *A. P. Costain, *C. Wilson Cubitt, *P. Fotheringham-Parker.

Members: G. I. Dance, H. J. Falkus, W. S. Jones, A. G. Miles, *H. H. Shears, J. R. Smallbone, *W. E. Tompkins, *H. Vincent, A. W. Yeomans. There is one vacancy resulting from the recent death of Mr. A. P. Belton.

Associate Member: *J. H. M. Overton.

Associates: *H. J. Brownjohn, *P. L. Dean, *A. C. V. Telling.

Licentiates: *Edwin T. Lawrence, *D. L. L. Miles, *C. G. Smith.

*Elected or re-elected at the annual general meeting.

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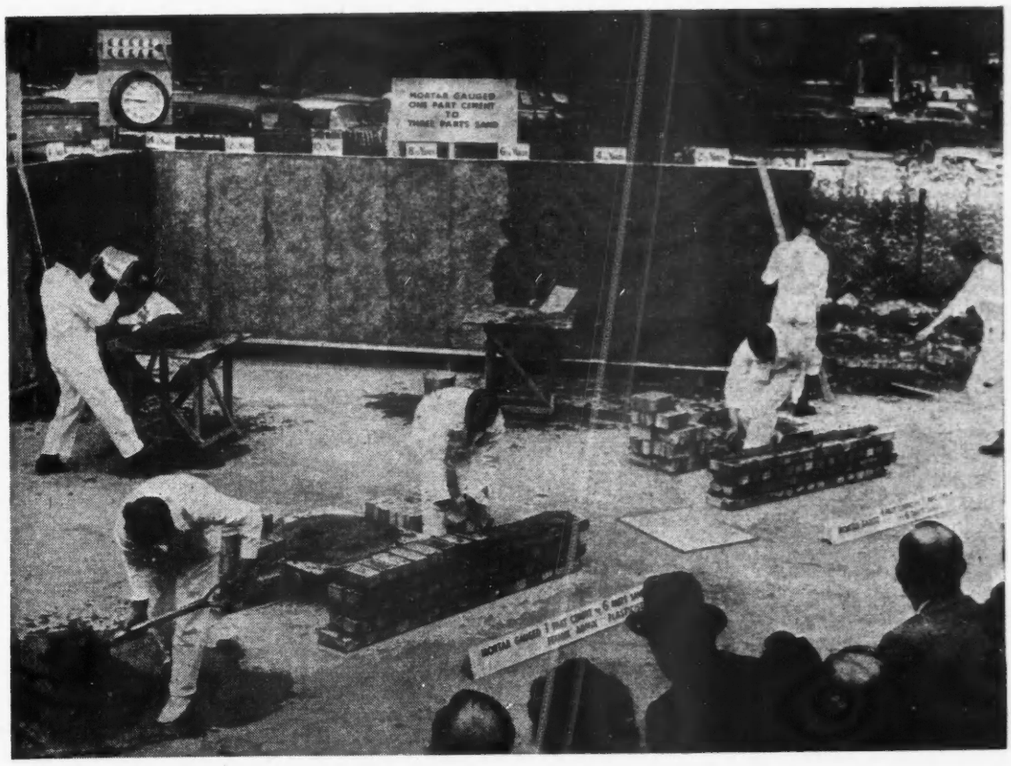

On June 27th a productivity competition was held in public to check whether the use of a Plasticised Mortar would help Bricklayers and Plasterers to increase output.

The Plasterers were given 10 minutes to apply and rule off as many square yards of ½" thick rendering as possible, one Plasterer using a 1-3 mortar and the other a 1-6 mix plasticised with FEBMIX ADMIX.

A 10-minute period was also allowed for the Bricklayers to lay as many bricks as possible, one Bricklayer using a 1-1-6 mortar and the other a 1-6 mix plasticised with FEBMIX ADMIX.

HERE ARE THE RESULTS—

Bricklayer using 1-6 mortar plus FEBMIX ADMIX = 109 bricks laid in 10 mins.
Bricklayer using 1-1-6 mortar ... ... = 89 " " " " "
Plasterer using 1-6 mortar plus FEBMIX ADMIX=9 sq. yds. applied and ruled off.
2 " " applied and not ruled.
Plasterer using 1-3 mortar ... ... =6 sq. yds. applied and ruled off.
2 " " applied and not ruled.

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CLEANER AIR

Evidence of Greater Public Interest

THE increase during 1955 in the number of complaints against chemical and allied works was not due to a deterioration in conditions, but to a growing awareness by the public of the desirability of cleaner air. This is the conclusion of the Chief Inspector of Alkali, etc., Works in his annual report (HMSO, price 2s.) to the Minister of Housing and Local Government (Mr. Duncan Sandys), published on July 24 together with the report of the Chief Inspector for Scotland, made to the Secretary of State for Scotland (Mr. James Stuart).

He attributes this growing public interest to the publicity the subject has received. Complaints and requests for technical advice and assistance led to investigations involving 100 registered works and 94 non-registered works compared with 70 and 90 respectively in 1954.

The number of works in England and Wales registered under the Act at the end of 1955 was 921 involving the operation of 1,794 separate processes. Compared with 1954 there was a decrease of 6 in the number of works and an increase of 10 in the number of processes. The total number of visits and inspections made during the year was 3,894 including 165 special visits by the Chief and Deputy Chief Inspectors. Of the total, 521 visits were to or in connection with works not registered under the Act and a further 60 visits were to or in connection with colliery spoilbanks. There were 21 occasions recorded when the total acidity of gases escaping into the air exceeded the Statutory limits, and a further 27 infractions related to failure to use "best practicable means" to prevent the escape of noxious and offensive gases. In every case formal notification of an infraction was made and suitable action ensued so there had been no occasion to institute proceedings.

Out of 500 or so colliery spoilbanks in England and Wales, the number which were classified as emitting sufficient smoke or fume to constitute a public health hazard was 15 at the end of 1955 compared with 19, 23 and 26 at the end of 1954, 1953 and 1952, respectively. A few of these cases are responding reasonably well to treatment, but there is a small, hard core of difficult cases where an improvement is problematical.

The high demand for cement has continued and all kilns have continued to operate at full output even when their associated dust arrestment plants were undergoing repair. It was not surprising, therefore, and especially in view of the fine dry summer, that there were complaints from most cement-making areas. The Inspectorate had continued to ensure that all the dedusting plant was kept in as efficient a state as possible, that shut-downs were kept to an absolute minimum and that standards of supervision and "good housekeeping" were kept as high as possible.

The Chief Inspector for Scotland, in his report, remarks that recent research work has thrown more light on the dispersal of gases and dust from chimneys, and that it would be desirable that the results of that work should be applied more generally, if only to test its validity.

During the year 82 works were registered, the same number as in the previous year, and there were 119 processes which required to be inspected, an increase of three over 1954. The number of visits to registered works was 195; a further 166 visits of inspection were paid to works not covered by the Alkali Acts. In the course of these visits seven infringements of the provisions of the Acts were noted, but they were sufficiently minor and transitory to be dealt with by formal letters of notification of the infringement. In each case the faults were rectified expeditiously. "Since the volume of production in registered works was quite high the number of infringements and complaints might be regarded as reasonably low," the Inspector comments.

PRICE RESTRAINT

Portland Stone, Woodwool, Window and Door Equipment, and Laboratory Ware

AS the principal producers of Portland and other building limestones the Bath and Portland Stone Firms, Ltd. and the South Western Stone Company, Ltd., have jointly agreed to further subscribe to the national economy and the continuing fight against inflation by maintaining the present prices of the following raw materials until the end of the current year, viz.: Portland stone, the Bath and Portland Stone Firms, Ltd., and the South Western Stone Co., Ltd.; Bath stone, the Bath and Portland Stone Firms, Ltd.; Doulting stone, the Bath and Portland Stone Firms, Ltd.; Beer stone, the Bath and Portland Stone Firms, Ltd.; Painswick stone, the South Western Stone Co., Ltd.

In regard to the prices of Portland block stone, the Bath and Portland Stone Firms, Ltd., point out that the price was last increased on August 1, 1954, and since that date increases of nearly 14 per cent. in quarry wage rates have taken place. Although further increases in the price of block stone have thus been warranted, mechanisation, leading to increased efficiency in the quarries, has enabled the price of block stone to be maintained with the result that whereas building trade wages have increased some 250 per cent. since 1939 block stone prices have only risen 63 per cent.

Woodwool Roofing Slabs

THERMACOUST LTD., of London, SE1, state that they do not propose to make any increase on their current prices for Thermacoust woodwool roofing slabs before the end of 1956, and hope to be able to maintain them during the New Year, if no major increases in costs of raw materials occur.

Window and Door Equipment

BECKETT, LAYCOCK AND WATKINSON, LTD., of London, NW10, manufacturers of window and door equipment, state that in December last, notwithstanding a large range of increased costs, they were prepared to hold their prices firm until June 30, 1956. Since the latter date, they have been giving very careful consideration to the position as it exists today, and in the light of the further and in many instances substantial, advances that have come into effect since the end of last year.

It is with considerable regret that they have to announce that in the case of many deliveries made on and after August 1, 1956, prices will be raised. In the majority of cases, the advance will be in the nature of 2½ to 5 per cent.; for a very few articles, the increase may be very slightly in excess of this; on the other hand, with a number of other products, no increase will be applied.

For firm orders and contracts at fixed prices figures previously agreed will remain in force.

"We fully realise the seriousness, particularly at this present time, of this step which is forced upon us, but we have exercised the utmost restraint in applying increases, and in order to mitigate its effect, and once again assist in stabilising costs, we wish to state the new prices coming into force on August 1, 1956, will remain firm until May 1, 1957."

Laboratory Ware

MEMBERS of the British Laboratory Ware Association, Ltd., have unanimously passed a resolution that, with a view to effectuating the Government policy of price stability all members will, as from September 1, next, agree to maintain for a period of six months their own existing prices for laboratory apparatus both in the United Kingdom and overseas.

Insulation Board

CELOTEX LTD., manufacturers of sugar cane fibre insulation board, acoustic tiles and hardboard, announce that they will hold prices firm until the end of 1956 provided that no major adverse factors emerge. This action has been taken to give practical support to the Chancellor's policy on price restraint on a national scale.

Metal Goods

THE METAL AGENCIES COMPANY, LTD., announce that, while their costs continue to rise, they will not advance prices before December 31, 1956, unless manufacturers impose increases on them.

OBITUARY

William Pritchard

WE REGRET to record the death of Mr. William Pritchard, former assistant housing director, Liverpool, who was aged 72. He played a large part in planning Liverpool's large municipal housing estates from 1922 until his retirement in 1949.

A. J. Toomer, FRIBA

WE regret to announce the death of Major A. J. Toomer, FRIBA, who was the first County Architect for Somerset, a position which he occupied from 1922 to 1938.

HOUSING PROGRESS REPORT

June Figures Improve on 1955

HOUSING PROGRESS REPORTS presented to Parliament as White Papers (Cmd. 9817, England and Wales, price 7½d. post free from Stationery Office; Cmd. 9818, Scotland, price 1s. 1½d. post free) show that 27,672 permanent houses were completed in Great Britain in June compared with 27,187 in June, 1955. In the first six months of 1956 144,212 houses were completed compared with 155,850 in the same period of 1955. Of these, 58,308 were by private builders.

IN PARLIAMENT

By Our Parliamentary Correspondent

The Restrictive Practices Act

HAVING disposed of an unusually heavy programme of business, Parliament adjourned for the summer recess on August 2, and, unless anything unforeseen arises in the meantime, will resume on Tuesday, October 23, to complete the session.

One of the measures which reached its concluding stages in the week of the adjournment was the Restrictive Trade Practices Bill, the Lords amendments to which were considered and approved by the Commons on July 30. This Bill received the Royal Assent on the day the House rose.

The amendments, providing a three months' breathing space before certain parts of the legislation were brought into operation, were subjected to some criticism by the Opposition, who feared that they would provide further opportunity for evasions. In each case, the Government carried the day, with majorities of 41 and 42.

Registration of Restrictive Practices

ONE of the first Orders in Council to be presented for the approval of Parliament in the new session, which opens in November, will be the one which will make certain classes of restrictive practices, including common prices and level tendering, subject to registration.

This was announced in the Commons on August 2 by MR. PETER THORNEYCROFT, President of the Board of Trade, in a written answer.

He said that since the Restrictive Trade Practices Act had become operative he had signed the Order, which would come into force on November 30, if approval was given by Parliament. Copies of the Order will be available to the public on August 10.

During the three months from the date of the operation of the Order, particulars of the classes of agreement specified in it must be furnished to the Registrar. The specified classes of agreement are, broadly, those which include restrictions about prices or other terms or conditions or which involve collective discrimination. They include agreements about common prices and conditions of sale, agreements about level or agreed tendering, agreements under which preferential terms are granted to certain persons or traders and agreements under which supplies of goods are confined to certain persons or traders. Agreements of the classes in question which contain restrictions affecting exports and which do not affect supply to the home market, do not have to be registered but must be notified to the Board of Trade.

Scottish Housing Subsidies

CHANGES in building subsidies in Scotland were announced in the Commons on July 31 by MR. JAMES STUART, Secretary of State for Scotland. These alterations are more or less in line with the changes which were introduced for England and Wales by Mr. Duncan Sandys earlier in the year, and which are included in legislation that is now operating.

Mr. Stuart said that it was his intention to introduce legislation as soon as possible to give effect to these alterations. This Bill—which will probably be one measure to be included in the Queen's Speech for the opening of the new Session on November 6—will also include the Government's proposals for town development in Scotland, which Mr. Stuart has already promised. He said that discussions on this topic would begin soon with the local authority associations.

The subsidy for new houses will be reduced to £24 a house for 60 years, and would replace the existing three-tier system for houses of different sizes. He accepted the view that in Scotland as a whole the need for houses for homeless families and to relieve overcrowding was greater than the need for houses to replace unfit houses, and the basic subsidy of £24 would be made available for all approved housing needs.

For houses to accommodate overspill the proposed rate of subsidy would be £42 a year, and a special subsidy of £30 would be paid to encourage local authorities to build a substantial number of houses to meet the needs of incoming industry. For multi-storey flats the basic subsidy of £24 with an additional contribution calculated to cover two-thirds of the amount by which the tender costs exceeded the tender costs of ordinary houses at the time would be paid. This additional contribution would apply normally to buildings of eight storeys and more but also where necessary to buildings of six and seven storeys.

The new rates of subsidy would be payable for houses included in tenders received by the department after July 31. Houses in tenders received up to that date, and which were approved, would qualify for the existing rates of subsidy. A few authorities might be able to show that the reduced rates would impose an undue financial burden on the rates, and where approved the Scottish Special Housing Association would be authorised, within the limits of their authorised programmes, to assist those authorities by building a number of the houses required in their districts. Within the same limits the association would also be authorised to build houses for overspill.

No change was proposed for houses built by local authorities in remote areas or for the needs of the agricultural industry.

Building Statistics

THE Government are seeking new methods to secure more up-to-date information of changes in the economic situation, and in outlining their plans to the Commons on August 1, MR. HAROLD MACMILLAN, Chancellor of the Exchequer, indicated that these included action to know as far as possible in advance the trend of investment in building.

To that end, he said, the Minister of Works was consulting the building and civil engineering industries about the possibility of their providing analysed information of their new contracts.

Other proposals included a compulsory annual sample inquiry about fixed investments and stocks in the distributive and service trades, voluntary provision to the Inland Revenue authorities of confidential quarterly estimates of profits by a number of companies, individual figures of which would not be disclosed outside the department.

OTHER BUSINESS

Local Authority Housing, 1957

MR. MITCHISON asked the Minister of Housing and Local Government whether he had yet issued his proposed circular to local authorities asking them for their plans for building houses next year; when he expected to get their replies, and whether he would publish them.

MR. DUNCAN SANDYS, in a written reply on July 31, stated: Yes. I have made arrangements to obtain comprehensive information about future house building by local authorities; and I hope to publish this in the autumn.

Asked for information about the number of authorities in England and Wales who had resolved not to build any further houses or flats for general needs, he referred to the action he had taken, and added that the information would not be available until after the end of August.

Starts of Private Building

DETAILS showing the volume and the new starts of private building in the months before and since the beginning of the credit squeeze were given by MR. PATRICK BUCHAN-HEPBURN, Minister of Works, on July 31.

He pointed out that monthly figures were available for new houses started, but figures for other new building were collected quarterly.

The details were:—

Year	Month	Quarter	New housing	Industrial	Other new work	Maintenance excluding housing	New starts: Area of industrial building m. sq. ft.	New starts: Houses Thousands
			£m.	£m.	£m.	£m.		
1955	April	2nd	53	52	30	28	17.3	13.0
	May							12.9
	June							12.2
	July	3rd	61	56	33	30	19.8	11.8
	Aug.							11.5
	Sept.							11.5
	Oct.	4th	57	61	35	30	12.2	11.4
	Nov.							10.6
	Dec.							7.4
1956	Jan.	1st	57	59	36	29	13.2*	8.5
	Feb.							7.0
	Mar.							11.1
	April	2nd	Not available					12.8
	May							12.5
	June							

* = subject to revision.

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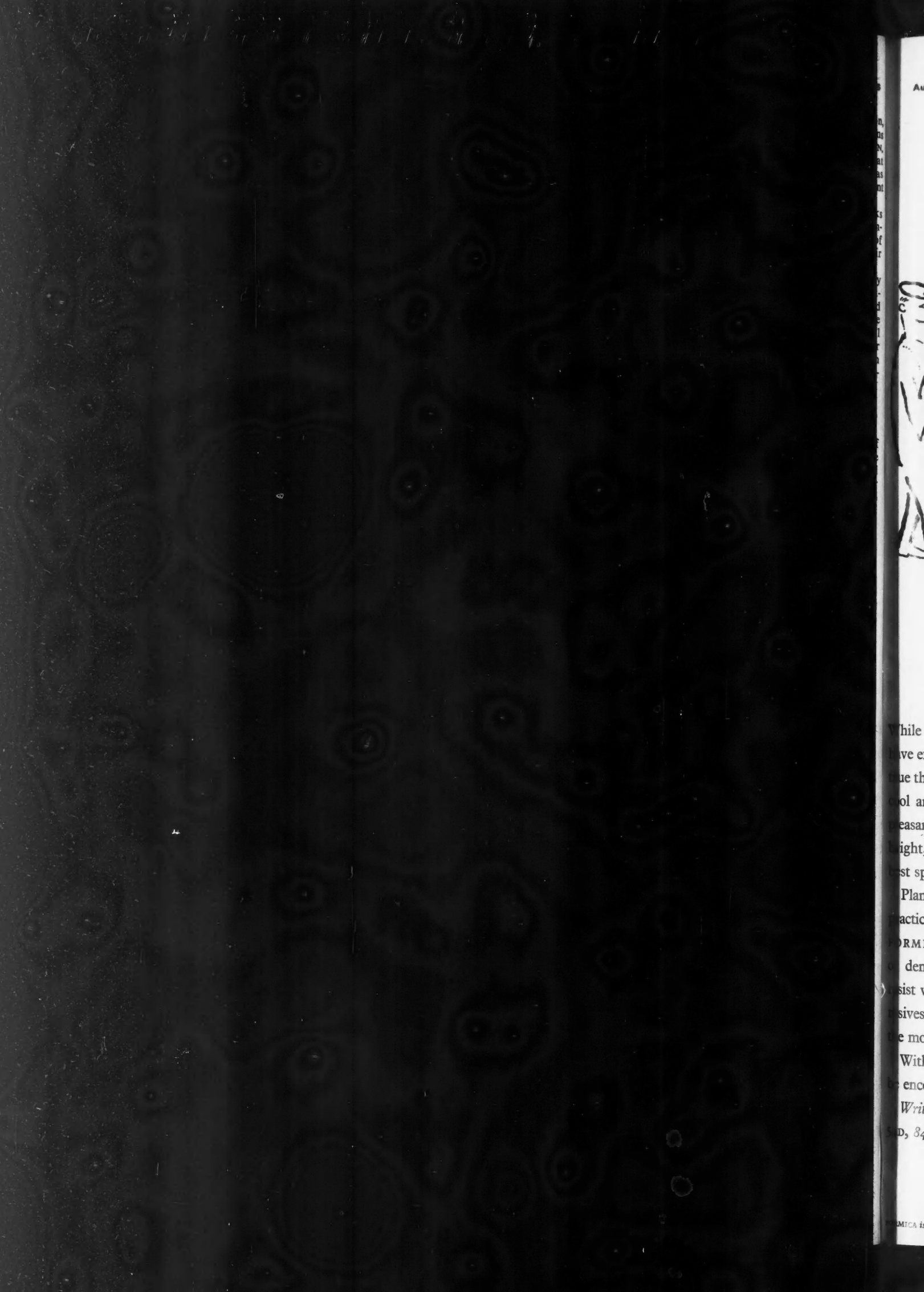

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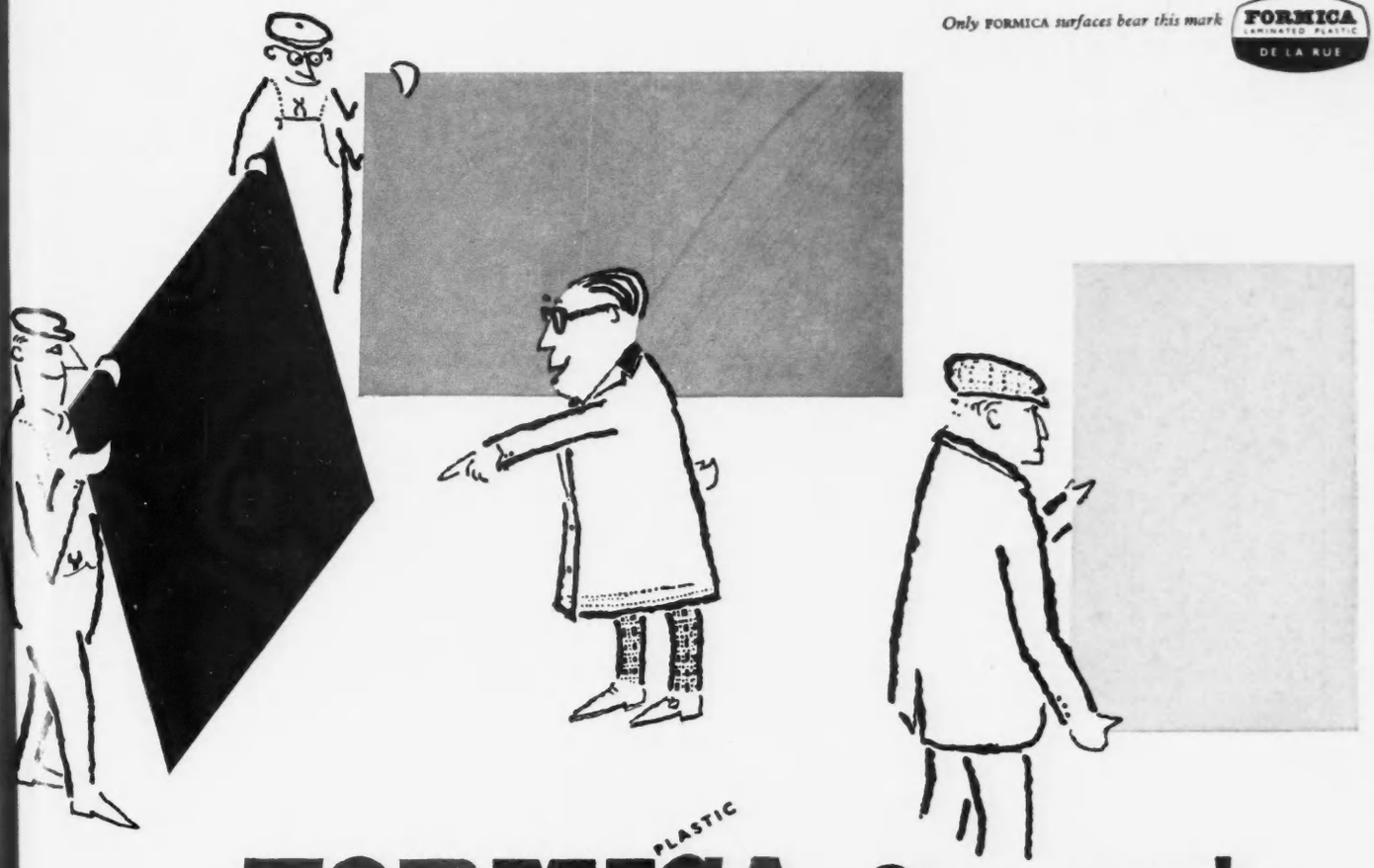

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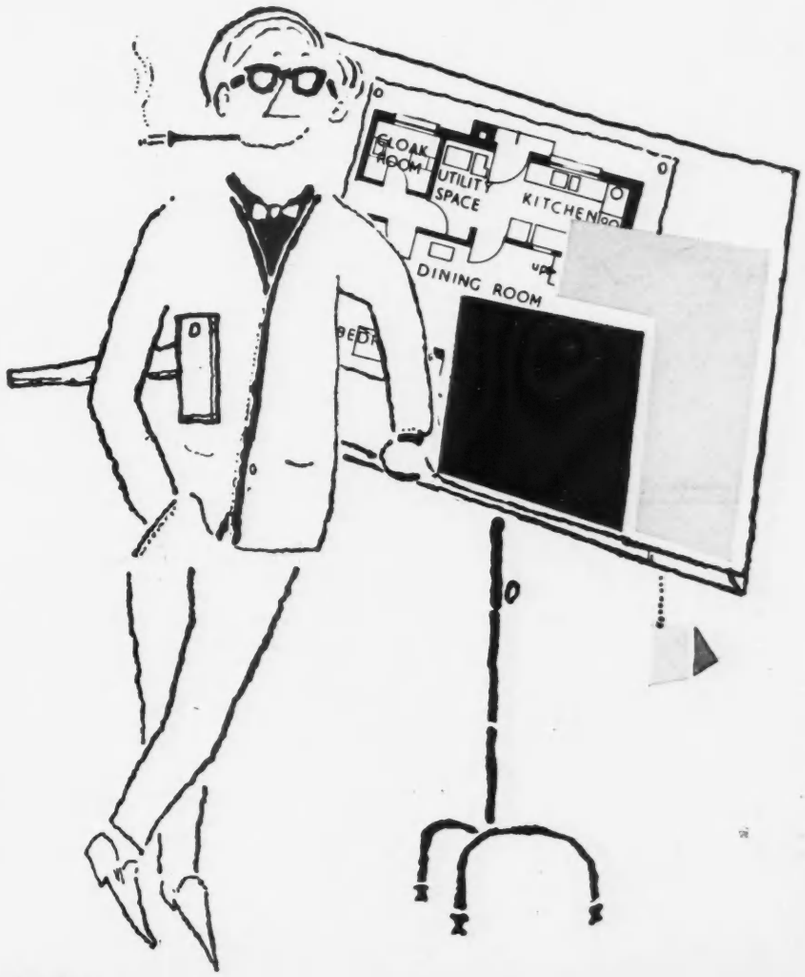

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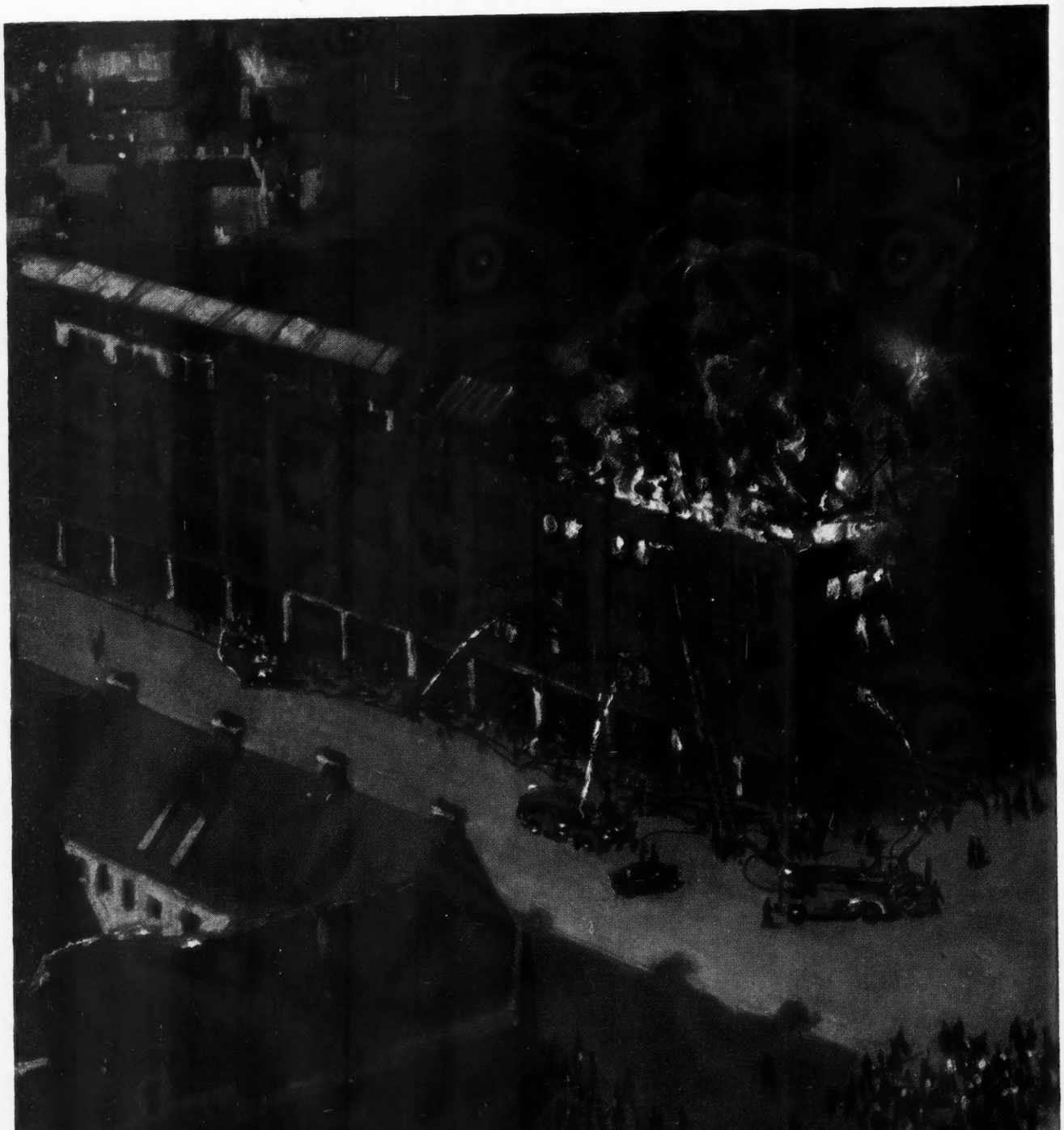

A million pounds up in smoke

One of the most costly fires in recent years occurred in March last year at a large Birmingham warehouse. Practically the whole of the building was destroyed despite the prompt arrival and intensive attack of the City Fire Brigade.

What are the lessons of this fire? Investigations by the Fire Protection Association show that the division of the building by fire-resisting walls and floors would have helped to confine the fire and might have saved all but the compartments in which the fire started.

Plain gypsum plasterboard provides linings which resist flame spread. And insulating gypsum plasterboard gives a high degree of thermal insulation in addition to fire protection.

The properties of Plain and Insulating Plasterboard are described in a brochure entitled "Improved Thermal Insulation with Reduced Fire Hazard". May we send you a copy?
Please write to Gypsum Building Products Association, G.P.O. Box No. 321, London, W.1.

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Residential Premises as Offices

MRS. LENA JEGER asked the Minister of Housing and Local Government whether, in view of the increase in new office accommodation in central London, he would take powers to require applications for planning consent when there was a change of occupier in a residential property now being used for office purposes, for which at present no consent was required under the established user dispensation.

MR. SANDYS: The approved County of London Development Plan provides that when temporary permissions for the use of residential property for other purposes expire, they will not be renewed, and that property still capable of residential use is not to be turned over to office use even in those parts of London reserved for offices. Various other possible methods were considered of dealing with this problem, including the one suggested by Mrs. Jeger, to which there are practical objections.

Effect of Mortgage Rates

MR. REMNANT asked the Minister of Housing and Local Government, on July 31, whether, in view of the increased rates of interest announced by the building societies, he would make a statement on its probable effect on private house building and his future policy.

MR. SANDYS: I am informed that the demand for mortgages for house purchase remains strong. It is too early to judge what, if any, will be the effect on the rate of private house building.

New Town Centres

MR. MITCHISON asked the Minister of Housing and Local Government in which new towns negotiations were in progress or arrangements had been made for the leasing of the town centre or a substantial part of it to Ravenseft Properties, Ltd., or other development companies; and what was his estimate of the effect of such leases on the revenues of the development corporation concerned and on the rents charged by them for houses.

MR. SANDYS: Several of the new town corporations have it in mind to lease parts of their commercial centres for development by such companies. Small areas have already been leased to Ravenseft Properties, Ltd., in Aycliffe, Harlow and Peterlee. A satisfactory return is received from these leases, which have no effect on housing rents.

Slum Clearance Proposals

MR. ELLIS SMITH asked the Minister of Housing and Local Government if he would make a statement on the prospects for slum clearance, and the response made to his proposals by local authorities; on what date the city of Stoke-on-Trent would receive confirmation for the Longton and Fenton clearance areas on which an inquiry was conducted on November 29, 1955; and if he would see that all such applications for confirmation were in future expedited.

MR. POWELL, Parliamentary Secretary, MoHLG, replying on July 31, said: During the first half of 1956 1,184 clearance area resolutions were submitted by local authorities, involving 21,048 houses. The comparable figures for the second half of 1955 were 581 clearance area resolutions, involving 11,558 houses. I consider this response by the local authorities most encouraging.

The inquiry held on November 29, 1955, related to the Longton No. 40 and 41 Clearance Areas Compulsory Purchase Order, which included two clearance areas in Longton but none in Fenton. The Order was confirmed on February 9 last.

Measures are in hand to expedite the progress of slum clearance orders at all stages, but I do not consider that the time taken to deal with this particular order was unduly long.

Caravan Sites Policy

MR. SIMMONS asked the Minister of Housing and Local Government on what date he sent his directive on caravan sites to the local authorities; and what had been the response. He also asked if the Minister, as a result of his consultations with local authority associations, would state his policy about caravan sites where families were permanently housed thus relieving the pressure on local authority housing lists.

MR. SANDYS: I have sent no directive to local authorities about caravan sites. I shall soon be consulting the local authority associations about possible changes in the law affecting caravans, and about caravan sites generally.

Regional Planning Organisation

MR. FREDERICK WILLEY asked the Minister of Housing and Local Government what action he was taking to assist in the creation of a British regional planning organisation following the establishment of an International Regional Planning and Development Centre in Brussels.

MR. SANDYS: None.

MR. WILLEY also asked whether the department was represented at the International Committee for Regional Planning and Development at Paris.

MR. SANDYS: No.

Kariba Dam Contracts

MAJOR LEGGE-BOURKE asked the Chancellor of the Exchequer whether, before approving the United Kingdom contribution he would obtain an assurance that the award of the contract for the building of the Kariba dam granted or to be granted to an Italian consortium would include a penalty clause to provide against incomplete fulfilment together with a bank or State guarantee to assure the carrying out of the terms of such a clause.

MR. HAROLD MACMILLAN, replying on July 31, said: The award of contracts for the Kariba project is a matter for the authorities in the Federation, who have naturally satisfied themselves that the contracts contain all necessary safeguards. I understand that there are full safeguards of the kind Major Legge-Bourke has in mind.

MR. RUSSELL asked the Chancellor to state the full extent of the commitment of the United Kingdom in the loan of £28m. made by the World Bank for the building of the Kariba dam.

MR. MACMILLAN: Service of the loan has been guaranteed by the United Kingdom. We have also agreed to the use of up to £10m. from our sterling subscription to the bank as part of the loan.

MR. GRESHAM COOKE asked the Secretary of State for the Colonies what proportion of the financing of the Kariba Dam contract was originally sought from the Colonial Development Corporation.

MR. LENNOX-BOYD, replying on August 1, said: The corporation sought and were given approval for a loan of £15m.

Chiswick House Restoration

In a series of written replies on July 30 about the restoration of Chiswick House, MR. BUCHAN-HEPBURN stated: The Historic Buildings Council have said that while they would see no objection to Chiswick House being used for a suitable purpose if this was considered essential, at the same time the house is a type of building justifying preservation in itself. When the work of restoration is nearer completion I will consider whether a suitable use can be found.

I expect the restoration of Chiswick House to be completed in 1958. Up to June 30 about £90,000 had been spent on the work. It is estimated that outstanding repairs will cost about £40,000.

LOCAL AUTHORITIES' EXPENDITURE

No Early Relaxation in Government's Restrictions

LOCAL authorities can expect little relaxation in the Government's restrictions on capital expenditure for a long time. They have been informed by Mr. Duncan Sandys, Minister of Housing and Local Government, that those restrictions would have to continue well into the new year, and perhaps longer.

This announcement was made by Mr. Sandys to a deputation of representatives of local authority associations, which met him and Mr. Henry Brooke, Financial Secretary to the Treasury, on July 30 to discuss local government financial problems.

An agreed statement issued after the meeting stated that the two Ministers had met representatives of the Association of Municipal Corporations, the Urban District Councils Association, and the Rural District Councils Association. Representatives of the County Councils Association were also present.

"The local authority representatives," the statement went on, "said that they would have wished to be consulted before the Government announced restrictions on capital expenditure by local authorities, not to challenge the Government's broad decision, but about its detailed application.

"They also referred to the dual effect of the alterations in housing subsidies and the increases in the rates of interest, and asked that their representations should be brought to the attention of the Chancellor.

"The Minister said that it had not been practicable to consult the representatives of local authorities before their decision to restrict their capital expenditure had been announced, because it had been part of a major decision of economic policy.

"He warned them that the restrictions would have to continue until well into the new year, and perhaps longer, but he said that he would be very willing to confer with the local authority representatives about the incidence of the restrictions should they so desire.

"The Financial Secretary said that the Chancellor regretted that it had not been possible for him to meet the local authority representatives, and he undertook to convey to the Chancellor everything that had been said."

The Builder Review of PLANT & MATERIALS

Corrosion

NUMBERS four and five of Jenolite News, published as one issue, contain some horrible pictures of the effect of rust on unprotected and neglected steelwork, coupled with a cut from the "Financial Times" announcing a rise in the cost of steel. It is not difficult to be convinced about the necessity for proper pre-treatment of steel, whether structural, mechanical or a finishing surface application of the metal is used, after reading this issue. From Jenolite, Ltd., 13-17, Rathbone-street, W1.

Self-adhesive Plastic Covering

A thin self-adhesive plastic sheeting sold by the yard, 18 in. wide, in a variety of patterns and colours has been introduced by Stixon, Ltd., 228, Old-street, London, EC1. The material is smooth-faced and is available in seven different colours, either plain, or with a stippled pattern somewhat like the weaves used so often by plastics manufacturers. It can be placed on any clean and dry surface after removal of the backing; it can be stripped off without leaving behind its adhesive. It is waterproof.

Electric Fires

Five new electric fires and convector heaters have been added to the range of the General Electric Co., Ltd., Magnet House, Kingsway, WC2. Appearance has been simplified and generally improved.

Track Link Reclamation

A special machine for re-metalling worn crawler tractor links, rollers and idlers has been designed by Quasi-Arc, Ltd., of Bilston, Staffordshire.

New Paint Formula

British Paints, Ltd., 15, Curzon-street, W1, are now making their "Superlative" gloss paint to an entirely new formulation that results, it is claimed, in a finish that is quicker drying, easier in application and without bloom or haze. Their "Luxol 1" will be withdrawn from the market.

Public Address System

Buses used in tours by the City of Aberdeen Transport Department have been fitted with Philips Public Address equipment by Philips Electrical, Ltd., Century House, Shaftesbury-avenue, London, WC2. Seven vehicles are equipped and there are five units available for installation in double-decker buses when required.

Plastic Coverings

Two new products are announced by Marley Floorings, Ltd., Lenham, Kent. One of these, MarleyFlor, is an addition to the range of floor coverings made in vinyl plastic, with a special backing. The other, Marleyfilm, of the same material, but without backing, is a covering for tables, desks, counter tops, shelves and other furniture. Both products are available to match in six colours, which go right through the material and do not wear off or fade. These are light green, yellow, blue, cream, red and grey, each marbled with toning shades. Marley-Flor is obtainable in rolls 36 in. wide and approximately 20 yds. long, and is easy to lay. It can also be supplied in tiles measuring 9 in. by 9 in.

Dry Rot Prevention

A development in dry rot treatment announced by Protim Limited, 356-368, Evelyn-street, London, SE8, manufacturers of wood preservative, is the use of fungicidal plugs. These plugs are solid sticks of fungicide designed to stop or prevent outbreaks of dry and wet rot in woodwork in contact with damp walls. The plugs are inserted in holes drilled in the wall behind the skirting board or near to joist ends. The inherent moisture or rising damp dissolves the plug and the resulting fungicide protects the woodwork.

New Flush Door

A new flush door which is claimed to give greater strength and resistance to impact, is 40 per cent. more sound-proof than the normal skeleton flush door and gives great thermal insulation, has been introduced by Thames Plywood Manufacturers, Ltd., of Barking, Essex. Known as the Thamesply-Werno Door, the core is a solid pack of short lengths of straw, uniformly cut and compressed together. Tests have shown that Thamesply-Werno doors have a sound supression value of 22 decibels.

Thumbturn Wrench

The latest plier list from Wolseley Engineering, Ltd., Wolseley Works, Electric Avenue, Witton, Birmingham, illustrates a new thumbturn wrench that is made in two sizes, 7 and 9 in. The great advantage of this tool is that it can be adjusted and operated with one hand and is ideal for nuts, bolts and pipes.

Gas Cooker

A new gas cooker has been introduced by Sidney Flavel and Co., Ltd., of Leamington Spa. Size: 21¾ in. wide, 23½ in. deep and 36 in. high to the hotplate plus or minus half an inch adjustment. Available with high or low splash-back. Equipped with oven, four burners, grill and lighter.

Oil-Fired Boiler

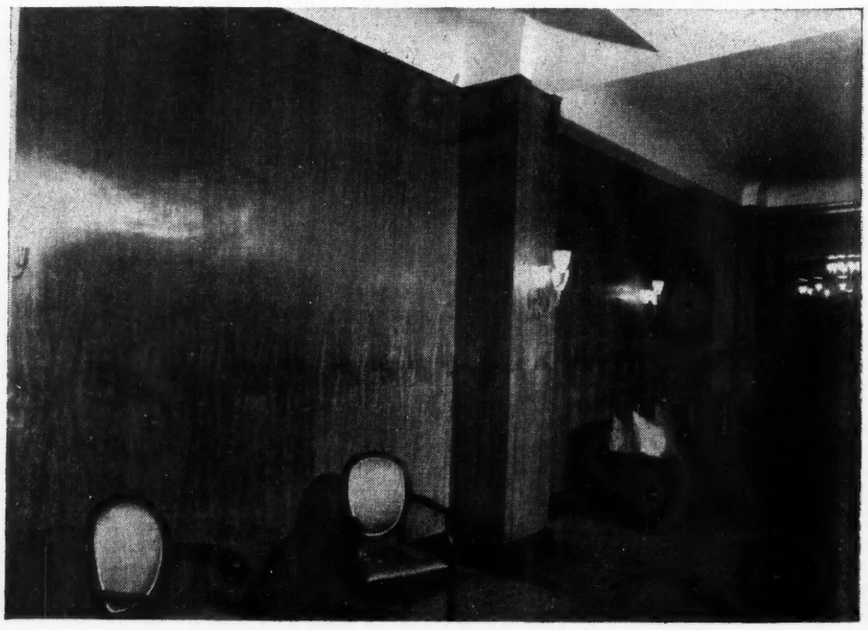
On the Simms Motor Units' stand at the Royal Agricultural Show, R. F. Landon and Partners, Ltd., a subsidiary of the group, displayed a "Kingsway" oil-fired boiler burner unit which has both agricultural and domestic application. The unit is fully automatic and temperature control is thermostatic in the range 220 to 58,000 BThU/hr, according to boiler size.

Cooker Control Unit

Eight completely new designs of cooker control units have been produced by M. K. Electric, Ltd., of Wakefield-street, Edmonton, London, N18. Basically the new switch has the pleasing profile of the "Plate-switch," and it is offered with or without twin pilot-lamps for cooker and socket switches, with square or round pin sockets and for flush or surface mounting. Finish—ivory.

Fireproof Shutter

A fireproof roller shutter to LCC and Fire Offices Committee Specifications has recently been developed and patented by Messrs. Adam and Lane and Neeve, Ltd., of Falcon Works, Copperfield-road, Mile End, London, E3.



The reception lounge at Grosvenor House Hotel has recently been redecorated throughout, designers: Sir Hugh Casson and Mr. John Wright, using Flexwood French walnut veneer supplied and fixed by The Alexandria Trading Corporation, Ltd., of 121, London Wall, EC2.

Bulletin No. 15.

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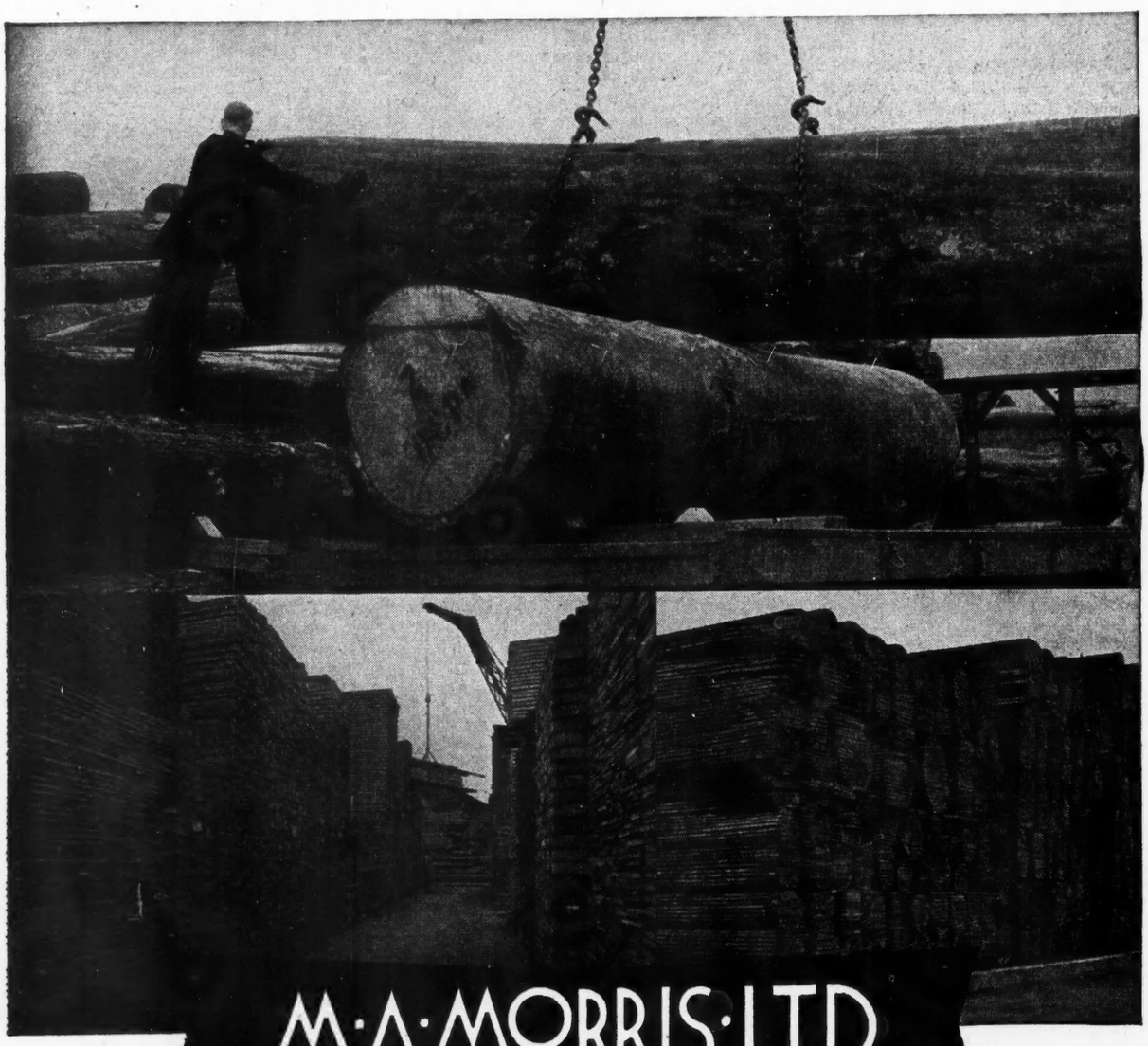

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LAW REPORT

Builders' Failure to Provide Safe Access to House: Appeal for Damages Succeeds

COURT OF APPEAL

BEFORE LORDS JUSTICES DENNING, BIRKETT AND MR. JUSTICE ROXBURGH

Riden v. A. C. Billings and Sons, Ltd.

THE Court of Appeal on July 26 held that builders who had created a danger in altering a path leading to a house owed a duty to people using it.

By a majority they allowed with costs an appeal by Mrs. Ethel Maud Riden (73), widow, of Fairview-road, Cheltenham, from a judgment by Mr. Justice Hallett, at Gloucester Assizes, who dismissed her claim against A. C. Billings & Sons, Ltd., building contractors, of Winchcombe-street, Cheltenham, for damages for personal injury.

Holding that Mrs. Riden was partly to blame for an accident in which she was injured, the court awarded her £611 8s., half the total damages assessed.

At the time of the accident on November 17, 1953, Messrs. Billings were engaged in altering a concrete ramp leading to the front door of 25, Cambray-place, Cheltenham, into a path and steps. There was a lot of rubble where part of the ramp had been demolished and rails at the side of the ramp near the door had been removed. An alternative access used was across the forecourt of neighbouring premises, over some soil and then up on the side of the ramp.

Mrs. Riden, when leaving the premises at 10 p.m., fell into the area at the side of the ramp. Her breastbone, left ankle and lumbar bone were fractured.

Messrs. Billings were sued for damages on the ground that they were negligent in failing to provide a safe alternative access to the premises.

The Ministry of Works and the Commissioners of Customs and Excise, occupiers of the premises, were also sued. The judge gave judgment for all the defendants, but Mrs. Riden appealed only against the decision given in favour of Messrs. Billings.

Mr. Justice Hallett held that the builders owed no duty to Mrs. Riden, who had been visiting the caretakers at the premises. At the same time he came to the conclusion that the defendants had neglected to do what good workmen would have done.

Giving judgment, LORD JUSTICE DENNING said the builders' workmen had left no safe means of access to the front door of the premises. They told the caretakers to take a route over the forecourt of adjoining premises. This advice was passed on to Mrs. Riden.

His lordship said contractors must take reasonable care for persons who might be affected by their work which they knew might bring danger to others.

It had been submitted that if they were liable, the duty ended when the person was not on the land concerned, No. 25, but on No. 26. His lordship did not agree. In this case the builders did not provide an alternative route and did not give warning of the danger. Therefore they were in breach of duty.

It had been argued that the builders were not liable as Mrs. Riden knew of the danger. His lordship said her knowledge was not sufficient as a bar to her action but only a ground for reducing the damages.

The judge had found Mrs. Riden had contributed to the accident by not taking proper precautions. In view of this finding, his lordship held she was equally to blame and the damages should be reduced by half. He would allow the appeal, assess the damages at £1,222 16s. and give judgment for Mrs. Riden for half that sum, £611 8s., with costs.

LORD JUSTICE BIRKETT agreed.

Dissenting, MR. JUSTICE ROXBURGH said that while he agreed the builders owed some duty to Mrs. Riden, he did not think they would reasonably contemplate that she would take the course she did in the dark.

A plank was provided by a relative of the caretakers on the soil near the ramp. The builders did not know of this but Mrs. Riden, who slipped on it, did. The builders could not have warned her about that and in the circumstances they owned no duty to her. He would have dismissed the appeal.

TRADE NEWS

Rubber

The summer issue of Rubber Developments, No. 2, Vol. 9, discusses recent developments in connection with natural rubber, rubber in roads, rubber latex in archæological research, a flexible support for a sewer and abstracts of patents.

Partitioning for Offices

The provision of additional office accommodation for the building of the British Nylon Spinners' organisation at Pontypool in South Wales, provided a considerable problem. Of several schemes suggested it was decided that wood chipboard was likely to prove the most efficient and economical for the purpose. Fourteen offices, of varying sizes, have been partitioned with 250 sheets of Plimberite Wood Chipboard made by British Plimber, Ltd., Factory 19, Albert Embankment, SE11. To ensure the highest degree of light in the rooms, glazing was used wherever possible above the first four inches of the partitioning.

Steam Generating Units

"Mitchell Report No. 5" is published by Mitchell Engineering Ltd., 1, Bedford-square, London, WC1, each issue devoted to one aspect of the organisation. This issue is concerned with steam generating units and shows by means of several illustrations and text various systems and plant installed in generating stations throughout the world.

Vickers Magazine

The spring issue of the overseas house magazine of the Vickers Group of Companies contains much of general interest, covering philately, design, shipping and an excellent architectural thesis that is reminiscent of Space, Time and Architecture. Well illustrated.

Mineral Texturing

Two adjacent contracts recently carried out by the Ruberoid Co., Ltd., of 1-19, New Oxford-street, WC1, included covering about 6,000 sq. ft. with a green mineral granule finish. The texturing process is a method of weatherproofing defective walls and roofs by the application of a plastic compound which, while still tacky, is blinded with mineral granules or stone grit. It can be applied to vertical corrugated-iron walling and it is claimed to retain a certain flexibility that resists cracking.

Cemented Timber Joints

Bulletin No. 161 of Aero Research Technical Notes from The Technical Service Department, Aero Research, Ltd., Duxford, Cambridge, is concerned with experiments on composite models with applications to cemented joints. It is, in fact, a paper by C. Mylonas, PhD, Professor of Engineering, Brown University, Rhode Island, USA. It has been reproduced by permission of the author and the Society for Experimental Stress Analysis.

Export

An order by Ford's Export Division for 20 JCB Excavators for Finland is just being completed by J. C. Bamford (Excavators), Ltd., of Lakeside Works, Rocester, Uttoxeter, Staffordshire.

New Factory

Messrs. Pilkington Bros., Ltd., and Chance Bros., Ltd., have announced that they are negotiating for a 30-acre site at St. Asaph, Flintshire, for the purpose of erecting a factory thereon. Planning permission has been applied for, five acres will be developed at first, expanding to ten acres in 18 months.

COMPANY NEWS

The General Electric Co., Ltd.—Interim dividend on the ordinary stock of 4½ per cent., which together with the proposed final dividend makes the proposed total dividend for the year of 14 per cent.

The Associated Portland Cement Manufacturers, Ltd.—Final dividend of 3s. 6d. on each £1 unit of ordinary stock, which with the interim dividend of 1s. makes a total for the year of 4s. 6d.

Sanders and Forster, Ltd.—In order to promote still further the export side of the business, Sanders and Forster, Ltd., structural engineers and manufacturers of standard steel buildings, have appointed Mr. Douglas R. J. Cook as their export sales manager.

Concrete, Ltd.—Proposed dividend of 10 per cent. on ordinary shares. A profit-sharing scheme has been started within the firm and 16 per cent. of the net profits has been allocated to the salaried staff, after deduction of a sum equal to 5 per cent. of the capital employed in the business.

PERSONAL COLUMN

MR. E. T. GILL, BSc, FIM, will be joining the staff of the development and research department of the Mond Nickel Co., Ltd., on August 1 as development officer for constructional alloy steels. He is taking up the position which became vacant when MR. L. W. JOHNSON was appointed assistant manager of the department.

MR. L. H. E. JONES, technical representative of the overseas division of Expandite, Ltd., Chase-rd., London, NW10, will be leaving this country on August 29 for an extensive tour of the Middle and Far East.

The British Aluminium Co., Ltd., announce the following appointments: MR. P. RALPH has been appointed vice-president of Aluminium Transatlantic, Inc.: he will be leaving for New York in September. MR. R. A. MARTIN has been appointed manager of the Scottish Branch Sales Office of the British Aluminium Co., Ltd., 113, West Regent-street, Glasgow, C2.

MRS. WINIFRED E. GUNTON has retired after serving with the Stella Lamp Co., Ltd., as a lamp sales representative for 36 years.

It is announced that MR. N. PEARSON, who has served the Kleine Co., Ltd., for 30 years, the past eight as director and sales manager, has been appointed by the board of directors to share with MR. H. L. E. BRAMER, AMIStructE, the position of joint managing director.

Aluminium Fully-supported Roofing

From a Correspondent

ON the Continent of Europe and in America there are noteworthy precedents over 50 years old for the use of aluminium fully-supported roof covering, and this method of roofing has been increasingly adopted in those countries since the beginning of the century. In Britain, on the other hand, architects and builders have been more reserved in welcoming a comparatively new metal to the ranks of the long-established roof covering materials, lead, copper and zinc.

Within the last five or six years, however, aluminium roof coverings have been used in Britain on buildings of several different types, including churches and schools, and despite the fact that this has been encouraged to some extent by the shortage and comparatively high price of the traditional materials, it may signify the beginning of a change of heart.

The arguments usually brought forward against the use of aluminium for this purpose are fairly well-known: first, there is no aluminium installation old enough to provide practical evidence that the material is as durable as, say, lead, which is known to last at least two centuries in rural conditions; secondly, aluminium has a bright, highly-reflective appearance which is dulled only very slowly by weathering, and for some time may look out of place on buildings where the roof is not concealed by a parapet.

While it is true that it is not possible from practical experience to say how long an aluminium roof will last, there is the evidence of the famous church of San Gioacchino in Rome, roofed in 1897 with aluminium which, when examined in 1949, was still in good condition; there are other installations abroad only slightly less old, which are still excellently serviceable; and there are the results of laboratory research. On the strength of all these, the aluminium industry feels justified in claiming, as a conservative estimate, a life of about 100 years for a fully-supported aluminium roof exposed to a rural atmosphere and somewhat less in environments of greater severity such as sea coast and industrial areas. This compares more than favourably with the service given by a copper roof in similar conditions and greatly exceeds the life that can be expected of one of zinc, but a lead roof would last about twice as long. It must be remembered, however, that the lead is usually up to three times thicker than the aluminium sheet.

Weathering and Appearance

It cannot be pretended that, in the year or two it takes for aluminium to weather to a pleasing grey shade, the metal looks as well as copper or lead, which rapidly acquire an appearance suited to either old or new buildings. But when the roof is shallow or concealed by a parapet (as is very common with fully-supported roofs) this is, of course, no handicap, and in any case the length of time that the metal retains its brightness is only a fraction of the total life of the building, especially in maritime and industrial areas.

Further comparison of aluminium with the other materials for roof-covering shows the newer metal to have several practical advantages. As the following comparative weights show, aluminium roofing sheet is by far the lightest, and is therefore the easiest and cheapest to transport and handle and requires the least support:

COMPARATIVE WEIGHTS PER SQ. FT.

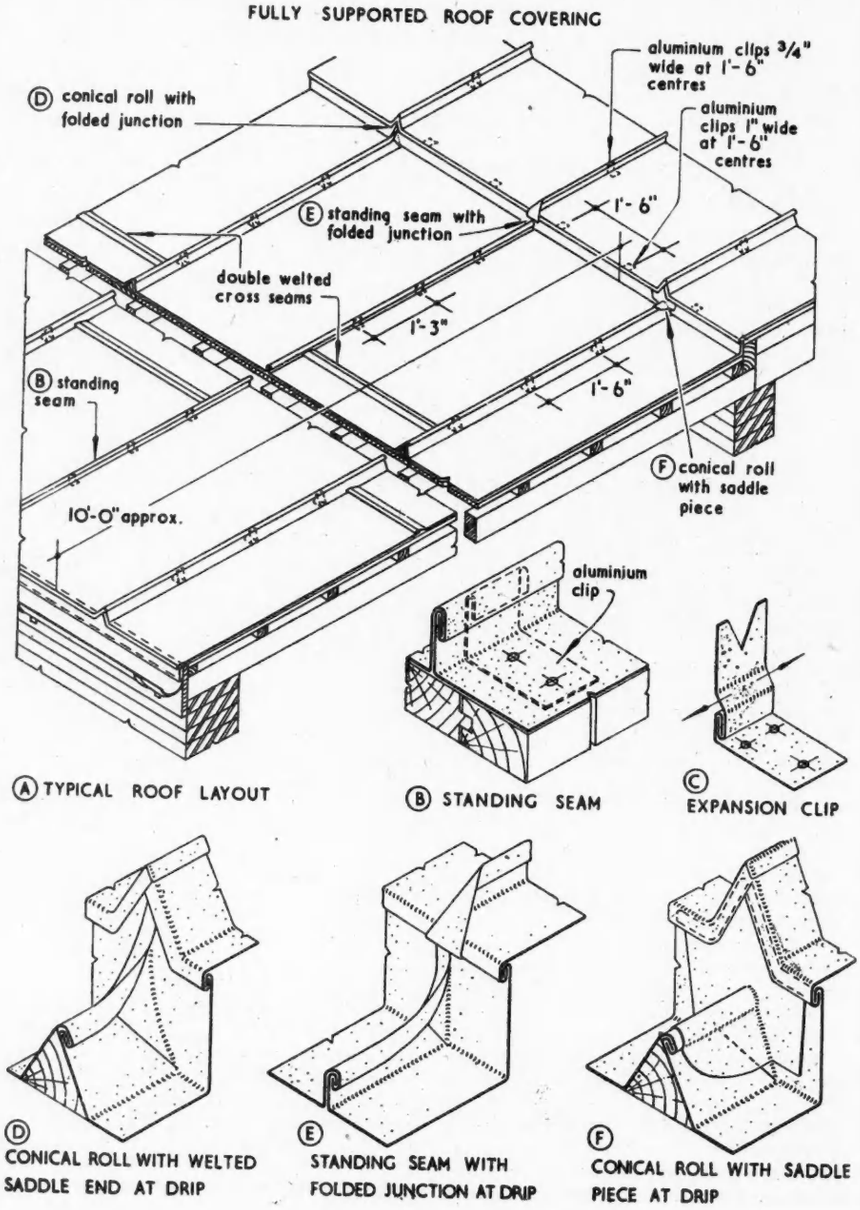
Lead	(0.068 in. thick)	4.00 lb.
Copper	(0.022 in. thick)	1.02 lb.
Zinc	(0.026 in. thick)	0.91 lb.
Aluminium	(0.028 in. thick)	0.40 lb.

The thicknesses given are those in common use for each material.

Aluminium can be formed as easily as copper or zinc, and has not lead's disadvantage of "creeping" out of position and so limiting the pitch of roof on which

The cupola of the Church of San Gioacchino, Rome. The aluminium roof dates from 1897, *and in* 1949 *was still in good condition*

FULLY SUPPORTED ROOF COVERING



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it can successfully be used. A further desirable characteristic, which has been specially marked where aluminium has replaced lead on church roofs, is that of low emissivity: by emitting heat less readily, aluminium reduces heat loss to the atmosphere and actually cuts fuel costs.

In principle, the method of applying the aluminium is similar to that already developed with the older materials, although practice varies somewhat from one country to another. Commercially pure aluminium (99.3 per cent.) in the annealed condition is generally soft enough to permit all the jointing and forming necessary, although where intricate folds require softer material, aluminium of greater purity (99.7 or 99.99 per cent.) is recommended. The extra stiffness of the commercially pure aluminium, however, has the advantage of preventing buckling due to expansion in hot weather as the movement is taken up by the seams.

It is usual to lay the metal on timber boarding on roof trusses, but at times of timber shortage concrete is a useful substitute, timber being used only for battens or studs to take the fixing rolls and clips. Compressed wood fibre and straw boards may also be used in place of timber; in neither case is timber studding necessary.

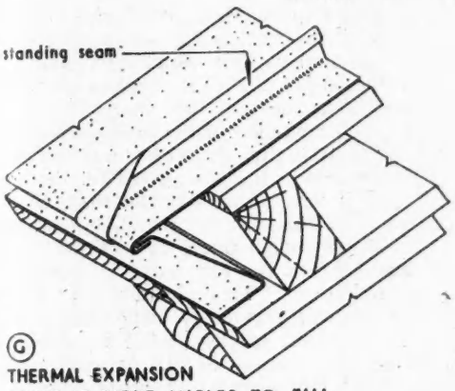
A fall of not less than 2 in. in 10 ft. is necessary to provide an efficient watershed, and for a pitch of less than 10 deg. drips are recommended, spaced at intervals of not more than 10-ft. These need be the only limits to the pitch of an aluminium roof.

The sheet usually supplied is 0.028 in. thick (22 SWG) in coils of 30 in. wide and, although the lengths could be up to 500 ft. long, the coil weights are usually limited to 56 lb. (which corresponds to a length of 56 ft.) to facilitate handling. As with copper and zinc, an underlay is necessary to prevent corrosion of the metal by contact with either wood or concrete, and also for sound-proofing. Inodorous felt (type 2B, 50 lb/roll to BS.747) or waterproof paper (Class A. BS.1521 : 1949) is recommended, and is usually held in position by clouts of aluminium or galvanized steel. The sequence adopted in laying the sheet is: gutters, cesspools, drop-aprons, main roof sheets, cover flashing.

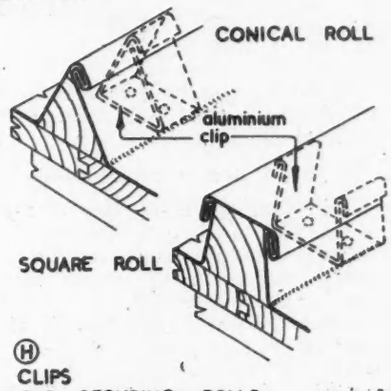
The various types of joints used are illustrated in the accompanying drawings. The cross joints are flat seams, which are double-welted on shallow roofs where extra weather-tightness is necessary, and staggered to avoid build-up in the standing seams or roll joints running at right angles to them. Standing seams are cheaper than roll joints, which require a timber batten, but they are much more easily damaged on roofs that are to be walked on. The drawings detail alternative conical and square roll joints and also show a more complicated, though very efficient, roll that can be made from extruded sections and has the advantage of saving site labour and avoiding the need for holding-down clips. These clips, which are of aluminium, are necessary with standing seams and timber rolls, being spaced 15 in. apart with the former and 18 in. with the latter. The expansion clips illustrated are used to make allowance for the thermal expansion of sheet laid in lengths over 20 ft., lateral expansion being taken care of by leaving about an ¼-in. gap at the bottom of the standing seam or roll joint.

Drop-aprons and flashings, also of aluminium, are welted to the roof covering and folded and tucked into chases or brick joints, the usual care being taken to ensure that any aluminium in contact with mortar or cement is protected by bituminous paint or a jointing compound.

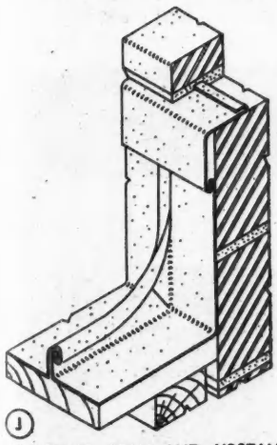
DETAILS OF APPLICATION



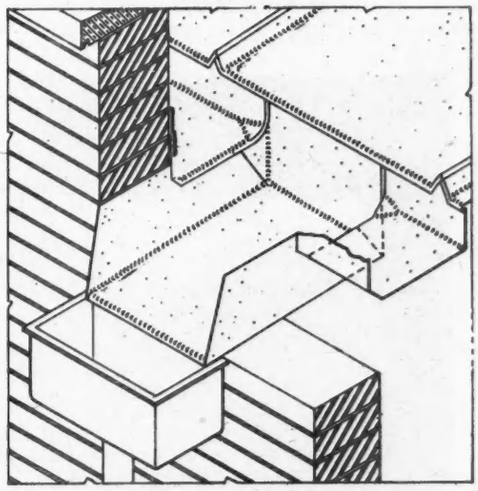
(G) THERMAL EXPANSION JOINT AT RIGHT ANGLES TO FALL



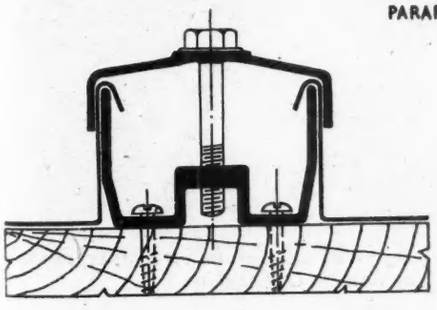
(H) CLIPS FOR SECURING ROLLS



(J) STANDING SEAM AND UPSTAND



PARAPET GUTTER AND OUTLET



EXTRUDED OR FORMED ROLL

Some Recent Applications

Within the last five years this method of application has been used in replacing the lead on four churches, and also on Gunby Hall, Lincolnshire, with aluminium supplied by Northern Aluminium Co., Ltd. While it is admitted that in recommending aluminium, the parochial church councils concerned were influenced by its comparative cheapness, and the possibility that the sale of the scrap lead would more than pay for the new work, it is also true that the decision had the full approval of the diocesan architects concerned, who were convinced that the choice of aluminium was a sound one. It is, therefore, of special interest to investigate the economics of the installations for which particulars have been obtained. The roofing of all four churches was undertaken by Builders' Iron and Zincwork, Ltd., and the Gunby Hall installation by Arthur Syddall (Grantham), Ltd., the work being carried out by Coupland & Johnson, of Spilsby.

The first of the churches to be recovered with aluminium was the Chapel of St. James, Nether Worton, near Banbury, work on which was carried out in the spring of 1950. This church has a total roof area of 1,572 sq. ft., covering nave, chancel, two transepts and tower, the total area of metal required (including seams, etc.) being 2,100 sq. ft.; fully annealed aluminium of commercial purity (Noral 2SO) was used.

It was found that the previous covering had been laid in 1665; 5 lb. lead had been used, which, when stripped off, weighed 5 tons 12 cwt. 1 qr. 14 lb. Removing the

This view of part of the roof of Gunby Hall, Lincolnshire, shows how high-purity aluminium lends itself to intricate folding.

lead also revealed dry rot and beetle attack, which meant that new timbers had to be installed at considerable extra cost. Additional timber was also needed to increase the number of battens on the two transepts and tower: previously they had been at 48-in. centres, which had to be reduced to 27 or 28 in. since the aluminium, being lighter than lead, needed to be fixed at shorter intervals and was supplied in narrower coils. Dispensing with battens, standing seams were used on the remainder of the roof.

In laying the aluminium, double-welted cross joints and standing seams were used on the main roof over the nave and chancel, and double-welted cross joints and conical rolls on the transepts and tower on which there is liable to be some walking; the underlay was a single layer of inodorous felt. Aluminium sheet was also used for lining the gutters, the flashings tucked into the stonework of the parapet being first coated with bituminous paint.

Discounting the repair of the timbers, the aluminium roof cost only about 80 per cent. of the sum recovered from the sale of the scrap lead. It is also worth noting that since the aluminium was laid the church has been very much warmer in winter (which was to be expected in view of the metal's low emissivity) and as a result the heating system has consumed less fuel.

The second church to be given an aluminium roof covering was that of the parish church of Aston-le-Walls, near Rugby, in the spring of 1951. Altogether 1,900 sq. ft. of metal (aluminium of commercial purity—Noral 2SO) were used for the nave, transepts and flashing round the tower and parapet, the same technique being employed as on the Nether Worton roof. The condition of the timber was very much better than at Nether Worton and did not need replacing, although certain repairs were necessary to both wood and stonework and again extra timber was required when the distance between the battens was reduced from 4 ft. to about 28 in.

A 40 per cent. Saving

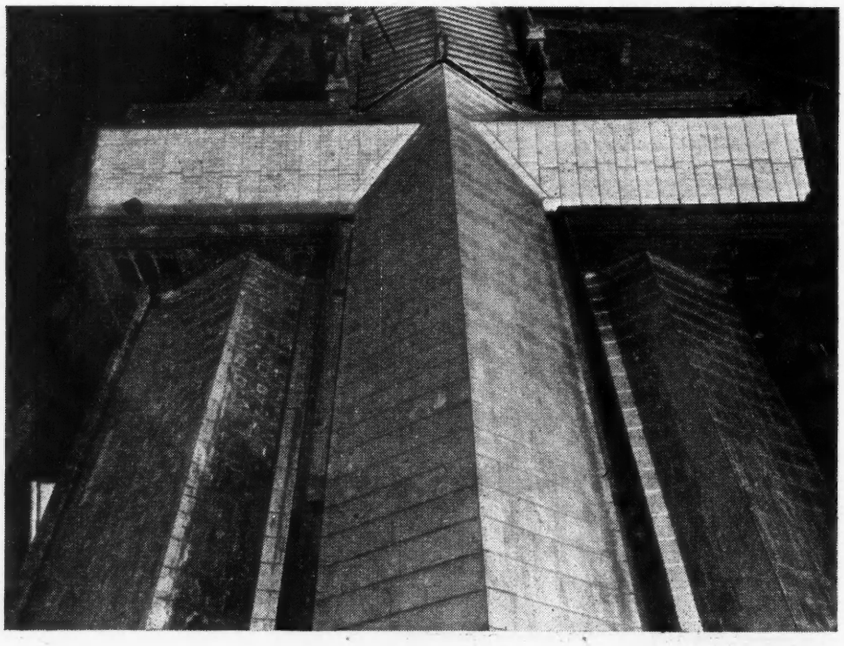
Again omitting the expense of repairing the woodwork and stonework, the cost of the new aluminium roof was only about 60 per cent. of the amount realised from the sale of the lead.

The re-roofing of the Church of St. Mary, Farthinghoe, near Brackley, included only the nave and south transept, occupying altogether an area of 1,268 sq. ft. and using 800 lb. of aluminium of commercial purity. Here again the cost of the new roof was more than covered by the sale of the lead from the old one.

The fourth installation, that of Adderbury Church, is much bigger than those previously mentioned, covering nave, aisles, chancel and porches to an area of 6,960 sq. ft. It is, moreover, the first installation of its kind using Noral 3S alloy, a stronger material than the commercially pure aluminium used hitherto, the sheet being of 0.036 in. thickness (20 SWG). Being harder and thicker it will better resist abrasion or puncture by workmen's boots, so will last longer; it also lies flatter and therefore looks better. It is not so readily formed as the softer material, but nevertheless can be folded to the required shape without cracking.

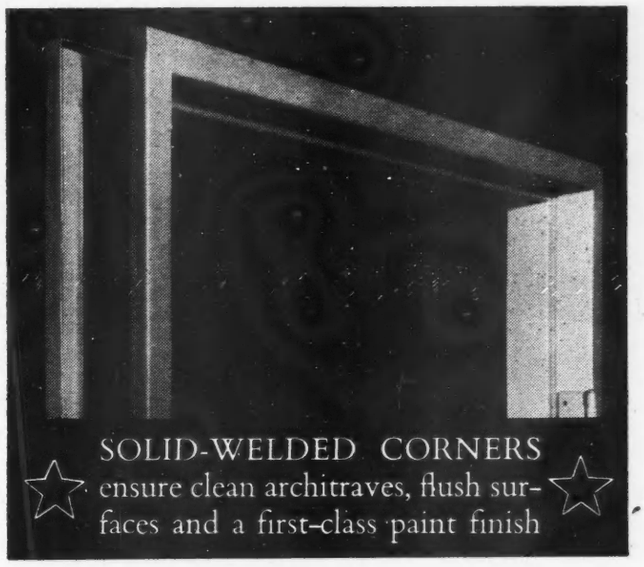
The existing gutters (which were of lead, like the rest of the roof covering) were retained and the aluminium sheet was coated with bituminous paint where it made contact with them. In every other respect the installation was the same as on the other three churches. The work was completed in the summer of 1955, and although it included repairs to woodwork and stonework, it showed a profit of over 15 per cent.

The Gunby Hall installation also is noteworthy in that the cost of re-roofing in aluminium was much less than the value of the old lead it replaced, even at the comparatively low price that scrap lead commanded at the time (November, 1954). Actually, the new roof cost only two-thirds of the price given for the lead, and, it was estimated, less than 60 per cent. of the cost of installing a copper roof. At today's prices of all three metals the balance is even more in favour of aluminium. This installation differs from those previously mentioned in that the architect specified 0.028 in. thick (22 SWG) aluminium of 99.7 per cent. purity (Noral High-Purity) as being somewhat easier to manipulate than the commercially pure metal and slightly more



Nearly 7,000 sq. ft. of aluminium sheet has been used to cover the nave, aisles, chancel and porches of Adderbury Church, Oxfordshire.

HOPE'S steel DOOR FRAMES



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corrosion-resistant.

Taken together, all the installations reviewed in this article underline the low first cost of aluminium as a fully-supported roof covering. This has made its appeal particularly to parochial church councils with whom, as is well known, cost must be among the first considerations. On the other hand, they, perhaps more than any other bodies, are conscious of building for posterity and of being guardians of the past. Moreover, they must have the approval of diocesan authority—advised by the official architect—before such work goes in hand.

There is evidence that other bodies are similarly interested in a roofing material that is comparatively low in cost, and yet can be expected to last, in rural conditions, at least a century.

Replanning the South Bank

UCL STUDENTS' PROJECT

FOR several years one of the Housing Centre meetings has been devoted to an exposition by students of the diploma course for town planning at University College, London, of the project which they have had to make for the purpose of the diploma examination. This year's students had two projects to expound at the Centre on May 1—redevelopment of the Thames South Bank from Waterloo Bridge to Southwark Bridge; and a further design for a new town.

The students come under the tutelage, guidance and encouragement of Sir William Holford who presided over the meeting.

A student, MR. JACKSON, described the proposed South Bank scheme. The area planned, he said, was bounded on the north by the river, on the east by Southwark Bridge Road, on the south by the Southern railway line and on the west by Waterloo Road.

Making a Master Plan

In making their master plan the students had given due consideration to the most recent proposals put forward by the LCC, but their scheme gave greater emphasis to the provision of residential accommodation.

Forty-five acres, approximately one-third of the whole area, has been allocated for residential purposes, the population to be catered for being 9,000. The residential areas are sited in both the east and west halves of the area. Provision is also made for a major centre of culture and entertainment on the western side.

Particular attention has been given to the development of access to the commercial area in the centre of the site, but the only divergence from the existing road pattern is on the east side, where Southwark Street has been diverted from its old line.

Another feature of the plan is the attention given to the river frontage so as to bring what the students describe as "this magnificent natural feature" into the life of the Metropolis, having particular regard to London's skyline.

Seventeen acres have been allocated on the east side of Blackfriars-road and 28 acres on the west side for residential purposes. The dwellings are to be maisonettes and flats in squares, linked up by broad pedestrian ways running straight through to the river front under the road or between the warehouses to an open space on the river front.

Flats are to be built in tower blocks, sited so as to take the maximum advantage of the view across the river to the north. The blocks will be of five to ten storeys in height, with a density of 235 people to the acre on the east side and 200 to the acre on the west.

Provision is also made for shopping centres and for four community rooms, nursery schools in each residential area and a market and a primary school on the eastern side. The Hopton Estate almshouses are to be retained in the eastern residential group.

It is proposed to erect for the Patent Office Library a building 340-feet high in the entertainment and culture centre site. Also on the site will be built a conference hall which may be used as a cinema, a riverside restaurant, a ballroom, a 600-bedroom hotel, a riverside night club, an exhibition centre, shops, offices and showrooms.

The whole area is designed predominantly for pedestrian traffic. There is a pedestrian square open to the river on the north. Vehicular access is provided to link up with the old Festival of Britain site under the arches to Waterloo Bridge and at two points to Stamford-street.

Facilities for handling goods at the wharves and warehouses on the river front, whether by river transport or by road, are to be improved and large areas allocated for the parking of lorries and the handling of goods.

As for open spaces, one on the west linking the residential area directly with the river will also be a great amenity for the people employed in the whole area.

The commercial portion of the area is in the centre. The existing substantial commercial buildings are to be retained, but multi-storey offices with parking facilities both on the surface and below ground are proposed. A new nautical school on the bank of the river is another idea.

Planning a New Town

Before the scheme for the new town was described, SIR WILLIAM HOLFORD said the chief difficulty in such a scheme was in trying to plan something which would attract people to it. An endeavour had been made to get the character of an old Greek city, in the widest sense of the term.

Explaining the plan, MISS COOMBS said the actual site was one which had been proposed in the County of London Plan but had since been abandoned. The plan had been devised with the object of attracting a core of specialised industry and also making it a national centre for both higher education and research.

The two chief provisions, as far as industry was concerned, were for a technical college for aero engineering and agriculture and a special area for research establishments, both Governmental and private. There was also a generous provision of offices.

Instead of a number of neighbourhood centres only one centre was planned because of the size of the town. It was possible to reach the perimeter from the centre in ten to twelve minutes' walking. The area for development was about a third the size of Stevenage, the density about 60 persons per acre.

INQUIRY BUREAU

Repointing Brickwork

Q.—The pointing on the front elevation of my house is in a poor state and I propose to have it redone. So far as I can see nothing has been done to it since the house was built more than 50 years ago. It is at present tuck pointed with a narrow strip of black mortar on a flush joint of grey, which seems to consist of a mixture of sand and lime. In places the tuck pointing is still perfect, but elsewhere it has completely perished. The bricks are red facings and a few of them have started to disintegrate on the surface.

I do not like tuck pointing and do not propose to have it repeated. Nor do I like the idea of repointing in cement mortar; I have seen several examples recently of such work which have not proved satisfactory, and I am told that cement mortar sometimes disintegrates old brickwork. My idea is to have the joints well raked out and repointed flush either with a lime mortar or a weak cement-sand mortar with a gauging of lime. I should much appreciate your expert advice.

J. C. D.

A.—Mortars for brickwork should be gauged to have a similar density and texture as the brick used. The foregoing generally applies to a brick of the red sandfaced Southern type. Bricks of the "Stock" family, particularly the well-burnt yellow London stock, will generally take a dense mortar and pointing mortar of the same order with no apparent effect. The writer has seen walls of this type built in a porous lime mortar, where the surface pointing has broken down and moisture has penetrated to the inside face by way of the joint, and when repointed with a 1:2 cement and sand weather joint, has rendered the inside quite dry.

Suggested treatment for the brick wall in question is to rake out the joints ¾ in. deep exposing all arrises. Flush point with a cement, lime, and sand mortar, gauged 3:1:10 or 4:1:12. The cement can be ordinary Portland or white cement to give the desired colour. A buff or yellow pigment could also be added to give tone. Trial mixes would have to be made. The point must be made with two actions with the trowel, one to press in the mortar to make it adhere and the other to dub out the surface and cut off as if the brick had just been laid, without smearing the face of the bricks.

R. M. E.

The Builder

CURRENT PRICES OF MATERIALS

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. Due to the exceptional circumstances now prevailing it is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	6	0
Pit Sand	"	1	3	5
Washed Sand	"	1	6	7
¾ in. Shingle	"	1	2	11
¾ in. Broken Brick	"	1	0	6
Pan Breeze	"		10	9
Fine or Coarse Foamed Slag Aggregate	per ton	3	0	9

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

Best British Portland Cement. Standard Specification delivered Charing Cross area.				
6-ton loads and upwards, site	per ton	5	4	6
1 to 6 tons, site	"	5	16	6
Rapid Hardening Cement in 6-ton loads and upwards to site	"	5	15	0
1 to 6 tons do. site	"	6	7	0
Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.				
Red, Buff or Khaki Colorcrete in 6-ton lots	"	8	1	0
Other colours according to colour.				
In 4-ton lots from 298s. 0d. to 688s. 0d. per ton.				
White Portland Cement	"	13	5	0
Under 1 ton	per cwt.		15	10
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	6	17	0
Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.				
Cullamix Tyrolean Finish, £11 8s. 0d. to £14 3s. 0d. (1-ton loads and upwards).				
Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	"	14	15	9
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	"	6	12	9
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	10	0

BRICKS

Full Loads.

First Hard Stocks	per 1,000	12	17	0
Second Hard Stocks	"	11	16	0
Mild Stocks (Kiln Burnt)	"	9	1	6
Mild Stocks	"	8	16	6

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

2½ in. Nominal Fletton Bricks to sites in W.C.				
District Commons	"	5	15	0
Cellular do.	"	5	15	0
Keyed do.	"	5	17	0
Rustics	"	7	5	0
Cellular Rustics	"	7	5	0
Single Bullnose Commons	"	7	5	0
Sandfaced	"	8	2	6
Tuscans	"	8	17	6
Saxons	"	9	5	6
Golden Buffs	"	9	12	6
Best Blue Pressed Staffs (London Stations)	"	28	15	6
Do. Bullnose (London Stations)	"	29	9	6
Blue Wire Cuts (London Stations)	"	25	19	0
Midhurst Lime Bricks (London sites)	"	10	8	0
Uxbridge Whites (London sites)	"	9	17	0
Special Purpose Sandlime Bricks (London sites)	"	7	14	0
2½ in. Best Stourbridge Fire Bricks (London stations)	"	27	16	3
3 in. do. (London stations)	"	33	8	0
2½ in. Moler Flue Bricks (London sites)	"	36	0	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	"	15	8	6
2½ in. Machine-made Multi Red Facings (London sites)	"	15	13	6
2½ in. Hand-made Sandfaced Red Facings (London sites)	"	15	6	0
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	"	16	1	0
Hand-made Sandfaced Cherry Red Facings. Berkshire district (London sites)	per 1,000	18	11	9
Hand-made Sandfaced Multi-Colour Facings. Berkshire district (London sites)	"	18	6	3
Rubber Bricks for gauged arches (London sites)	"	42	15	0
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	"	13	6	0
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	"	14	18	0
Glazed Bricks (London sites), White, Ivory, Brown—				
Stretchers	"	64	0	0
Headers	"	63	0	0
Quoins, Bullnose and 4½ in. Flats	"	80	0	0
Double Stretchers	"	85	0	0
Double Headers	"	77	10	0
One side and two ends	"	87	0	0
Two sides and one end	"	89	10	0
Splays and Squints	"	83	0	0

Cream and Buff £3 extra over White. Other colours, hard glaze, £8 10s. 0d. extra over White. All above prices plus 25% for Best quality and plus 25% less 10% for Second quality.

PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District).

	Minimum lorry loads.				
Hollow Clay Partition Blocks (Keyed)					
*2 in.	140 yds.	per yd. sup.	4	5	
*2½ in.	140 yds.	"	4	8	
*3 in. (3 cavity)	120 yds.	"	5	5	
Building Blocks (Keyed)					
*3 in. (6 cavity)	110 yds.	"	5	7	
*4 in. (6 cavity)	95 yds.	"	6	10	
6 in. (8½ in. × 5½ in.)	1,250 blocks	per 1,000	26	18	0

* Half blocks at no extra charge.

Clinker Concrete					
2 in.	100 yds.	per yd. sup	3	9	
2½ in.	85 yds.	"	4	4	
3 in.	75 yds.	"	5	3	
4 in.	55 yds.	"	6	5	
Cranham					
2 in.		"	6	8	
2½ in.		"	7	4	
3 in.		"	8	7	
4 in.		"	10	7	
4½ in. Load bearing quality		"	11	8	
Moler Partition Blocks					
2 in.	150 yds.	"	15	6	
2½ in.	120 yds.	"	15	9	
3 in.	100 yds.	"	16	0	
4 in.	90 yds.	"	19	0	
Lightweight Concrete Building and Partition Blocks of Various Sources of Manufacture					
2 in.	100 yds.	"	5	9	
2½ in.	80 yds.	"	6	11	
3 in.	65 yds.	"	8	1	
4 in.	50 yds.	"	9	6	
4½ in.	44 yds.	"	10	2	
6 in.	33 yds.	"	13	8	
Thermalite-Ytong Partition Blocks					
2½ in.	120 yds.	"	6	11	
Thermalite-Ytong Loadbearing Insulating Blocks					
3 in.	100 yds.	"	8	3½	
4 in.	75 yds.	"	10	9	
5 in.	60 yds.	"	13	5	
6 in.	50 yds.	"	16	1½	
8½ in.	35 yds.	"	1	3	0½
Floor Blocks and Filler Tiles					
3 in. Floor Blocks 12 in. by 12 in. delivered in full lorry-loads		per 1,000	34	1	0
4 in. do.		"	36	10	0
5 in. do.		"	43	15	0
6 in. do.		"	49	19	0
7 in. do.		"	61	8	0
8 in. do.		"	71	19	0
12″ × 3″ × ⅝″ Filler Tiles in multiples of 10 tiles	per 1,000 multiples		42	15	0
12″ × 4″ × ⅝″ do.	do.		73	15	0

STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Standard List prices delivered London Area.

Delivered ex Merchants Wharf or Depot or Manufacturers Works.

	Over 2 tons	Over 100 pieces Under 2 tons	Under 100 pieces Under 2 tons
Best Quality	+85%	+117½%	+130%
BSS Best do.	+10% +85%	+10% +117½%	+10% +130%
Tested Quality	+37½% +85%	+37½% +117½%	+37½% +130%
BSS Tested do.	+47½% +85%	+47½% +117½%	+47½% +130%

Where Humidity is 90% plus..

★

Beacon Zinc Metallisation gives complete protection against Rust and Corrosion

Make no mistake, it is in the Tropics where steel windows receive their greatest punishment.

Take Dar-es-Salaam, for example. Humidity often in excess of 90% — terrific rainstorms in the monsoon season — a salt-laden atmosphere all the time. Could conditions be worse? We doubt it.

Yet in Dar-es-Salaam, as in a score of other cities along the East and West African coastline, Beacon Windows have proved to architects and builders that the ravages of rust and corrosion can be prevented. They have seen for themselves—and our ever-increasing export orders confirm it—how the Thompson Zinc Metallisation Process gives protection against the elements.

One big advantage of The Thompson Rustproofing Process is that it is carried out *after* assembly. Under the flame of the oxy-propane metallising gun the whole window receives a generous coating of zinc — 99·5% pure — as an integral unit. As a result every Beacon Window is guaranteed free from distortion and to fit accurately on all four sides to exclude all draughts.

BEACON
METAL WINDOWS

Member of the Metal Window Association

JOHN THOMPSON BEACON WINDOWS LTD · WOLVERHAMPTON

Hey Prestik!

SEE THE EASE AND SPEED OF THIS JOINTING AND SEALING!

Use PRESTIK Builders' White Sealing Strip once, and you will never be content with any other method of jointing, sealing or bedding.

For PRESTIK offers altogether new ease and speed of operation . . . gives you a far more efficient, longer-lasting job . . . can be used inside or outside . . . needs no special tools . . . is completely clean to handle . . . is permanent and weather-proof.

PRESTIK is supplied in handy boxed reels from which you unwind the ready-made strip as you want it. Ask your usual Builders' Merchant for it. Or write to the address below for a sample.

PRESTIK makes quick work of:

MASONRY—Jointing gutter sections and coping stones. Bedding and jointing concrete blocks and panels.

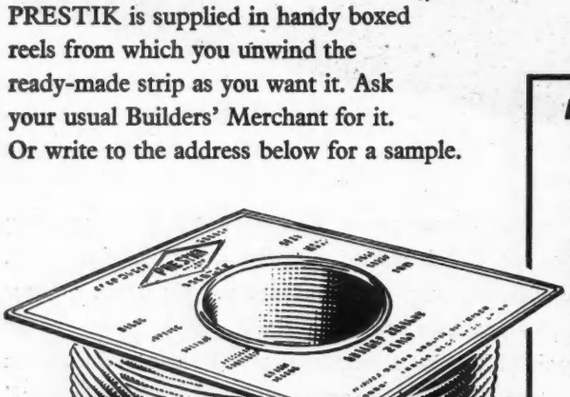
PRE-FABRICATION—Bedding and Jointing roof sections. Sealing joints in sectional buildings.

FLOORS—Sealing cable duct covers. Sealing skirting board joints.

WALLS and CEILINGS—Sealing wall-board joints (with cover strips). Sealing glass bricks to door and window frames.

DOORS and WINDOWS—Sealing door and window frames to brickwork. Bedding window frames and window boards.

SANITARY WARE — Sealing baths, washbasins, etc., to walls.



made by the **Bostik** *people*

white PRESTIK

Builders' Sealing Strip

BOSTIK and PRESTIK are registered trademarks of:
B.B. CHEMICAL CO. LTD., ULVERSCROFT ROAD, LEICESTER.

STONEWARE DRAIN PIPES, etc.—*continued*

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths) ...	per 1,000	11	5	6
4 in. do.	„	14	16	6
6 in. do.	„	30	14	0
9 in. do.	„	58	9	0

DAMP COURSE

Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.	3	3½	
Asbestos base ditto 7 lb. per yd. sup. do. do.	„	5	2	
Lead lined bitumen ditto 9½ lb. per yd. sup. do.	„	12	2	
18 in. × 9 in. British damp course slates	per 1,000	41	12	8
14 in. × 9 in. do. do.	„	32	0	0
9 in. × 9 in. do. do.	„	18	2	6
18 in. × 4½ in. do. do.	„	19	2	6
14 in. × 4½ in. do. do.	„	15	4	9
9 in. × 4½ in. do. do.	„	10	5	3

STONE

Bath Stone—				
Monks Park	per ft. cube	8	1½	
St. Aldhelm Box Ground	„	9	1½	
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	„	8	11	
Beer Stone. Delivered London area	„	8	5	
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	„	8	5	
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stooled cills	per ft. cube	3	17	9
12 in. × 6 in. do. do.	„	2	15	6
12 in. × 3 in. Plain coping, twice throated ...	„	2	3	0
12 in. × 3 in. Weathered and twice throated coping	„	2	17	3
14 in. × 6 in. do. do.	„	2	11	9
4½ in. × 9 in. Plinth, rubbed on top and face ...	„	2	6	3
3 in. sawn two sides Slabs, random sizes	per ft. sup.		8	3
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	8	3
Do. do. fair one edge for fair faced brickwork	„	1	13	6
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		10	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	12	9
12 in. × 6 in. Plain Steps, rubbed top and front ...	„	2	6	3
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		9	4
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	5	3

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000			
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	8	0
Hand-made Pantiles Berkshire district	55	10	0
Hand-made Double Roman Bridgwater district	58	13	6
Hand-made 10½ × 6½ tiles Berkshire district	15	5	0
Machine-made 10½ × 6½ Staffordshire district	13	18	9
Hand-made Hip and Valley tiles per doz.	1	11	3
Machine-made Hip and Valley tiles do.	1	8	0
Concrete tiles 10½ × 6½	8	1	6
do. Interlocking (49S)	19	0	0

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate Station. Per 1,000 actual.			
24 × 12	137	2	4
22 × 12	111	8	0
22 × 11	100	14	1
20 × 12	94	9	10
20 × 10	90	8	6
18 × 10	62	17	0
18 × 9	55	1	6
16 × 10	49	10	0
16 × 8	38	15	3

NOTE.—breakage in transit, purchasers' responsibility.

TIMBER

Softwood—				
Joinery quality	Ex. Wharf	per standard	£115 to £140	
Carcassing quality	do.	„	£100 to £105	
1 in. Tongued and Grooved Flooring	do.	„	£110	0 0
Hardwood—				
Mahogany—African S.E. ...	do.	per ft. cube	1	10 0
do. Honduras do. ...	do.	„	3	5 0
Oak European do. ...	do.	„	2	5 0
do. Japanese do. ...	do.	„	2	10 0
do. English Logs sawn ...	do.	„	1	17 6
Teak 8 in. average S.E. ...	do.	„	3	17 6
Walnut African Logs sawn ...	do.	„	1	5 0

DOORS (in Lots I-II)

		£	s.	d.
Delivered London area.				
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2ft. 0 in. × 6 ft. 6 in.	each	1	12	0
2 ft. 3 in. × 6 ft. 6 in.	„	1	13	0
2 ft. 6 in. × 6 ft. 6 in.	„	1	14	0
2 ft. 9 in. × 6 ft. 6 in.	„	1	16	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	„	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	„	2	11	6
2 in. Panel, top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	„	2	1	9
2 ft. 9 in. × 6 ft. 6 in.	„	2	3	6

SUNDRIES

Delivered London area.				
1 in. Wood Wool Slabs, 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.	5	8	
1½ in. do. (67 yds. to 1 ton)	„	7	4	
2 in. do. (52 yds. to 1 ton)	„	8	11½	
2½ in. do. (45 yds. to 1 ton)	„	10	3	
3 in. do. (39 yds. to 1 ton)	„	11	5½	
Quantities under 1 ton add 1d. per ½ in. of thickness.				
½ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
½ in. Hardboard do.	„	2	1	6
5/16 in. do. do.	„	3	2	6
3/16 in. Asbestos Flat Building Sheets	per yd. sup.		3	8
¼ in. do.	„		4	10
Roofing Felt, 1-ply	„		1	7
do. 2-ply	„		2	0
Best Scotch Glue in slabs	per ½ cwt.	5	0	0
do. pearl	„	5	5	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	70	10	0
do. 4 in. and up (1-ton lots)	„	67	0	0
Wire Nails, 3 in. (4-cwt. lots)	per cwt.	3	3	6
do. 4 in. and up (4-cwt. lots)	„	3	3	0

METALS

STEEL JOISTS, ETC.

Basis Joists—				
6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in. 12 in. × 6 in. plain cut to lengths delivered London area	per ton	44	5	0
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	„	3	10	0
3 in. × 3 in.	„	2	10	9
4 in. × 3 in. 10 in. × 4½ in.	„	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	„	1	15	0
4¾ in. × 1½ in.	„	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in.	„		15	0
6 in. × 3 in. 24 in. × 7½ in.	„	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in. ... ... }	„	1	5	0
12 in. × 5 in. 22 in. × 7 in.	„	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. } 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. } 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. } 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. } 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in. }	„		10	0
Steel angles average price	„	46	5	0
Steel tees average price	„	47	5	0
Fabricated work delivered London—				
R.S. Joists cut and fitted	„	61	7	6
Compound girders	„	67	10	0
Stanchions	„	72	17	6
Compound stanchions	„	77	5	0
In Roof Work—Trusses and Purlins	„	90	10	0
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	3	0

FERRO-CONCRETE BARS

Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock ⅜ in. diam., and upwards	per ton	44	10	0
¼ in. diam.	„ extra	8	12	0
5/16 in. do.	„	6	12	0
⅜ in. do.	„	4	12	0
½ in. do.	„	3	2	0

MILD STEEL TUBES

Tubes to BSS1387 and Fittings. List prices and following discounts :

Galvanised Tube—	W.I. Fittings.	Malleable Fittings
Class A + 10¾%		
Class B + 22 %	Light + 38¾%	Malleable List—28¾% + 40%
Class C + 40 %	Heavy + 46¼%	
Black—		
Class A − 11¼%		
Class B + ¾%	Light + 55¼%	Malleable List—28¾%
Class C + 15 %	Heavy + 33 %	

C.I. HALF-ROUND GUTTERS

Delivered London per yd. in 6-ft. lengths

	Gutters	Nozzles	Stop Ends
3 in.	3/8¼	3/4	/11
3½ in.	4/0¼	3/7	/11
4 in.	5/2¼	4/1	1/5
4½ in.	5/8¼	4/6	1/8
5 in.	6/4¼	4/11	2/0

METALS—*continued*

C.I.O.G. Gutters

	Gutters	Nozzle	Stop Ends
3 in.	4/9½	4/4	1/2
3½ in.	5/4	4/4	1/5
4 in.	5/11	4/6	1/8
4½ in.	6/4½	5/2	2/0
5 in.	7/0	5/11	2/3

C.I. Rain-water Pipes

Per yd. in 6-ft. lengths	Pipe	Bends	Branches
2 in.	7/11	4/1	5/10
2½ in.	7/11	4/6	7/10
3 in.	8/11	5/8	8/5
3½ in.	10/1½	6/8	10/2
4 in.	11/8½	8/1	12/0

L.C.C. Coated Soil Pipes

2 in.	9/0	7/0	8/5
2½ in.	9/5½	7/8	10/6
3 in.	10/8	8/5	12/6
3½ in.	11/11	10/6	14/7
4 in.	13/6½	11/9	17/2

Above prices for gutters, rain-water and soil pipes for under 5 cwt. lots only. Lots over 5 cwt. see List No. 3300 dated February 1, 1955, plus 12½% and tonnage allowance. 4-ton lots 5 per cent., 2-ton lots 2½ per cent.

L.C.C. Coated Drain Pipes

In 9-fts.

	cwt.	qr.	lb.	per yd.	Bends	Branches
4 in.	1	1	17	31/4	21/9	38/9
6 in.	2	0	1	46/2	58/0	92/9

Asbestos Rain-water Pipes and Fittings

All less 17½ per cent. discount.

		2 in.	2½ in.	3 in.	4 in.
Pipes 6-ft. lengths	...per yd.	3/11½	4/3	5/1½	6/9½
Shoes	... each	2/7	2/10	3/4	4/6
Single Branches	... „	4/–	4/9	5/8	7/11
Bends square or obtuse	... „	2/10	3/1	4/–	5/8
Swan Necks 4½ in. proj.	... „	3/1	4/–	4/6	6/3
do. 6 in. do.	... „	3/4	4/–	5/1	6/9

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters 6 ft. lengths	...per yd.	3/8½	4/2	4/11½	5/11½
Drop ends	... each	3/–	3/6	4/1	4/10
Stop ends	... „	–/11	1/–	1/1	1/3
Angles	... „	3/1	3/7	4/4	5/1
Nozzles	... „	3/–	3/6	4/1	4/10
Union Clips	... „	1/6	1/9	2/2	2/6

Asbestos Half-Round Gutters and Fittings

		3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters 6 ft. lengths	per yd.	2/7½	3/1½	3/2½	3/9½	5/3½
Drop ends	... each	2/2	2/7	2/10	3/1	4/6
Stop ends	... „	–/10	/11	1/–	1/1	1/3
Angles	...	2/6	2/10	3/1	3/4	4/6
Nozzles	... „	2/2	2/7	2/10	3/1	4/6
Union Clips	... „	1/1	1/2	1/3	1/5	2/1

	Per ton basis in London £	s.	d.
Iron—Staffordshire Crown Merchant Quality	43	12	6
Mild Steel Bars	46	18	0
Mild Steel Hoops	42	17	6

	Ex Merchant's Stock per ton Two-ton lots £	s.	d.
Soft Sheets C.R. and C.A.—			
20 gauge	56	2	6
24 gauge	58	12	6
26 gauge	61	12	6
Galvanised Corrugated sheets 6 ft. to 9 ft.—			
20 gauge	64	0	0
24 gauge	67	10	0
26 gauge	72	15	0
Galvanised flat sheets C.R. and C.A.—			
20 gauge	65	0	0
24 gauge	67	10	0
26 gauge	73	5	0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base prices)		£	s.	d.
Sheet BS 1470 SIC 18 SWG (36 in. wide)	per lb.		2	9½
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide) ...	„		2	7
Coiled strip BS 1470 S1C 18 SWG (24 in. wide) ...	„		2	8½
Coiled strip BS 1470 NS 3 Utility 18 SWG (24 in. wide)	„		2	6½
Coiled strip for flashing 99.7% purity 22 SWG (12 in. wide)	„		2	11
Corrugated sheet BS 1470 NS 3 Utility Circular Profile 8 ft. × 32 in. × 20 SWG	per sheet	1	11	0
Corrugated sheet BS 1470 NS 3 Utility Industrial Profile 8 ft. × 31½ in. × 20 SWG	„	1	16	9
Corrugated sheet BS 1470 NS 3 Utility Mansard Profile 8 ft. × 31½ in. × 20 SWG	„	1	10	2
Extruded section BS 1476 E1C simple moulding ...	per lb.		2	7½
Extruded section BS 1476 E1C 1 in. diam. round	„		2	5
Extruded section BS 1476 HE1WP simple angle	„		2	10½
Extruded section BS 1476 HE10WP 1 in. diam. round	„		2	9½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ...	„		4	2½
Tubing BS 1471 HT10WP 1½ in. O/D × 20 SWG	„		5	5½

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

All per doz.	M.O.H. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron	87/–	128/8				
Toilet bib cocks for iron ...	109/–	158/5				
Screwdown stop cocks for iron	66/–	95/9	188/–	363/–	522/6	917/6
do. with two unions for lead	89/–	132/–	234/4	472/–	623/6	1389/6
Double nut boiler screws ...	18/8	26/5	47/6	48/6	67/–	93/6
Heavy Croydon ball valves ...	77/–	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/–
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4 in.
Caps and screws	33/–	40/8	59/6	92/5	118/10	155/3
Brass sleeves		31/11	31/11	56/2	74/10	91/5
	1½ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	70/9	88/6	141/7	241/11		
Lead S. trap do.	85/6	106/3	174/–	312/8		

Solder		s.	d.
Plumbers'	per lb.	4	1
Tinmen's	„	4	11
Blow pipe	„	5	0

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 36½d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 3 cwt.

	Extra d.		d.		d.
⅛ in. × 19 gauge ...	13½	Total per lb.	49¾	approx. per ft.	13¼
¼ in. × 19 „ ...	11⅞	„ „	48⅞	„ „	18¾
1 in. × 18 „ ...	10⅝	„ „	46⅝	„ „	29
1¼ in. × 18 „ ...	9¼	„ „	46	„ „	35
1½ in. × 18 „ ...	9¼	„ „	46	„ „	41¼
2 in. × 17 „ ...	11⅛	„ „	47⅞	„ „	66¾

		£	s.	d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	per ton	349	5	0

Zinc

			£	s.	d.
Sheet Zinc	10 gauge (25 SWG)	5 cwt. lots upwards per cwt.	8	5	9
do.	12 gauge (23 SWG)	„ „	8	3	3
do.	14 gauge (21 SWG)	„ „	8	2	0

Brass Tubes

			s.	d.
Brass tubes basic price, plus gauge and manufacturing extras	per lb.	2	5½	

LEAD SHEET AND PIPES

Basis selling price in minimum one-ton delivery to one address in London or Home Counties.

		£	s.	d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	152	5	0
Lead Water Pipe in coils	„	154	10	0
Lead Soil Pipe 10 ft. or over 2 in. to 4 in. dia. ...	„	156	0	0
„ over 4 in. dia.	„	158	0	0
Lead Gas or Untinned Compo pipe	„	156	0	0
Extras over Basis for quantities under 1 ton				
5 cwt. and under 1 ton	per cwt.		2	0
3 cwt. do. 5 cwt.	„		4	0
1 cwt. do. 3 cwt.	„		6	0

Smaller quantities than 1 cwt. priced specially.

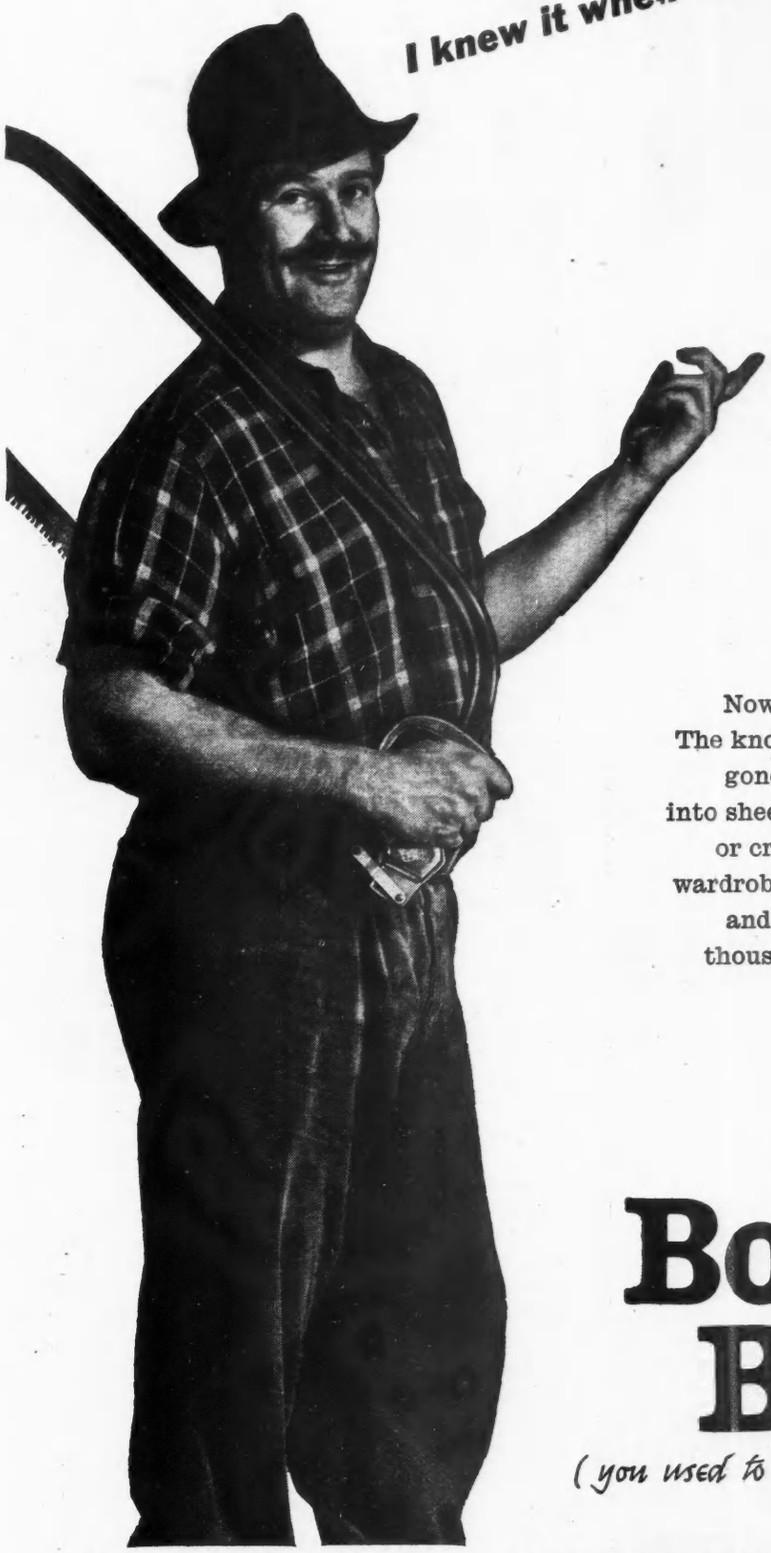
Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected £98 10s. 0d. per ton weighed at buyer's works.

PLASTER, etc.

Coarse Pink in 1-ton loads and over Delivered on Site	per ton	8	0	0
do. White do. do. ...	„	8	9	6
Sirapite Coarse do. do. ...	„	8	2	0
do. Fine do. do. ...	„	8	10	0
Blue Lias Lime in 6-ton loads	„	6	14	6
Hydrated Lime (Grey) do.	„	5	17	6
Do. (White) do.	„	6	5	0
Lump Lime (Grey) do.	„	5	7	0
Do. (White) do.	„	5	14	6
White Keen's or Parian Cement in 1-ton loads ...	„	11	9	6
Pink Keen's or Parian Cement in 1-ton loads ...	„	11	4	3
Granite Chips in 6-ton loads	„	2	9	4
Hair	per cwt.	4	17	6
Gypsum Plaster Lath or Base Board ⅜ in. thick 600 yds. and over in one delivery. Delivered site ...	per yd.		2	4
1,200 yds.	„		2	3½
Do. Insulating do. ⅜ in. thick 600 yds. and over in one delivery. Delivered site	„		3	0
1,200 yds.	„		2	11½
Gypsum Plaster Wall Boards, 3 and 4 ft. wide, 6 to 12 ft., ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	„		2	7
1,200 yds.	„		2	6½
Do. Insulating do. ⅜ in. thick 600 yds. and over in one delivery. Delivered site	„		3	3
1,200 yds.	„		3	2½

I knew it when it was a tree . . .



Now it's wood really ready for work. The knots have gone. The trouble has gone. It's just pure wood, compressed into sheets that won't split or splinter or crack. It's ready to be made into wardrobes and walls, doors and floors and linings for roofs. It's got a thousand uses but only one name . . .

it's now

Bowater Board

(you used to know it as Lloyd Board)

STANDARD AND SUPER HARDBOARDS, LEATHERGRAINED, REEDED AND PEGBOARD, INSULATION BOARDS AND 'TALON' FIXING SYSTEMS.

Building Boards Division, Bowaters Sales Company Limited, Bowater House, Stratton Street, London, W.1. MAYfair 8080

CICS

FOR A COMPLETELY WATERPROOF MIX—

ADD R.I.W. "C.W.P."!

R.I.W. Cement Waterproofing Powder renders concrete, Portland cement mortar, stucco, artificial stone and precast concrete completely waterproof. R.I.W. "C.W.P." increases the workability, flow and plasticity of the mix, is non-injurious to steelwork or reinforcement and does not retard or accelerate the action of Portland Cement.

Mixing

The use of R.I.W. Cement Waterproofing Powder entails no departure from normal mixing practices. The proportion is 2 per cent by weight of the amount of neat Portland cement used, but where water pressure is known to exist this is increased to 3 to 5 per cent.

A Well Established Product

For many years R.I.W. "C.W.P." has been specified for numerous projects. Some of these are: Unilever House, London; Imperial College of Science; White City Stadium; London Transport Tube Stations; Corby Development Corporation, Swimming Baths; schools, cinemas, hospitals, civic centres, etc., etc.

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The R.I.W. range includes constructional damp-proofing, protective and decorative materials for the protection and preservation of all types of surfaces against a wide variety of destructive agencies.

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R.I.W. Protective Products can be supplied direct or through your nearest builders' merchant. You are invited to send for fully detailed Technical Literature on all R.I.W. products.

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an R.I.W. Protective Product

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TELEPHONE: THORNTON HEATH 6121

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For utmost transmission of light, ease of handling and installation, resistance to atmospheric conditions, durability and economy. Galt-Glass is available in profiles to match all standard roofing materials and is ideally suited for roof and wall lighting of factories, warehouses, offices, barns, storehouses, etc. The light weight enables large sheets to be handled by one man and Galt-Glass can be cut, drilled, and fixed by conventional methods. Also now available in sheet form with flat or reeded surface for decorative and concealed lighting effects.

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PAINT AND DISTEMPER

Delivered London area		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	,,	5	5	0
Gloss Paint	per gal.	2	10	0
Snowcem cement paint (in 1 cwt. drums)	per cwt.	3	11	0
LEAD PRODUCTS AND OILS				
Ground White Lead, 1 cwt. kegs	per cwt.	9	14	0
Genuine White Lead Paint, 1-19gal. lots in 1 gal. tins	per gal.	3	9	6
Genuine Red Lead, Dry, 1 cwt. keg	per cwt.	7	9	9
Genuine Linseed Oil Putty, 1 cwt. keg	,,	2	15	6
Size XD quality, 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		17	3
Boiled Linseed Oil (5 gal.) do.	,,		17	9
SUNDRIES.				
Turpentine substitute (5 gal.) drums extra	,,		5	6½
do. do. (40 gal.) do. do. ...	,,		4	8½
Solignum, Brown (5 gal. cans) Exterior	,,		7	4
Creosote (40 gal. barrels)	,,		2	0
Paste Powder (1 lb. packets)	per lb.		2	0
White Lining Paper	per piece		1	1

VARNISHES, etc.

Delivered London area				
Oak Varnish, Outside or Inside	per gal.	1	18	0
Oak Pale Copal do.	,,	1	18	0
Hard Drying Oak for Inside	,,	2	1	0
Crystal Paper Varnish do.	,,	2	4	0
Eggshell Flat Varnish do.	,,	2	6	0
Finest Carriage Varnish	,,	2	5	0
Front Door Varnish	,,	2	1	0
Japan Gold Size	,,	1	14	0
Black Japan	,,	1	15	0
Brunswick Black	,,	1	10	0
Berlin Black	,,	1	7	6
Terebene	,,	1	13	0
Knotting (1 gal. bottles free)...	,,	2	7	0
French and Brush Polish (do.)	,,	2	0	0

GLASS

Delivered London area	per ft. super s. d.
18 oz. Sheet Glass Ordinary Glazing Quality. Cut Sizes	6¾
24 oz. ,, ,, ,, ,, ,, ,,	8¾
26 oz. ,, ,, ,, ,, ,, ,,	11
32 oz. ,, ,, ,, ,, ,, ,,	1 2¾
⅛ in. Rolled Plate	10⅞
3/16 in. and ¼ in. Rough Cast	1 2¼

	Per ft. super s. d.
⅛ in. Figured Rolled and Cathedral, Standard patterns:	
White	10⅞
do. Standard Tints	1 8
do. Special Tints	3 4
⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating	1 3
¼ in. Wired Cast	1 5
¼ in. Georgian Wired Cast	1 5½
Hollow Glass Blocks—	Each
P.B.2. 5¼ × 5¼ × 3⅞ in.	2 11
P.B.3 7¼ × 7¼ × 3⅞ in.	4 5
P.B.32 7¼ × 7¼ × 3⅞ in.	4 5
Radiused Corner Blocks to match up with—	
P.B.2	5 6
P.B.3	7 0
P.B.32	7 0
¼ in. Polished Plate Glass, G.G. Quality—	Per ft. super
In plates not exceeding 2 ft. sup.	3 10
,, ,, ,, 5 ft. sup.	4 9
,, ,, ,, 45 ft. sup.	5 7
,, ,, ,, 100 ft. sup.	6 0
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality —Not exceeding 135 ft. sup. or 250 in. one way or 135 in. both ways	9 0
Not exceeding 180 ft. sup. or ditto	12 1
Not exceeding 200 ft. sup. or ditto	17 2
Plates exceeding 200 ft. sup. prices on application.	
Substances other than ¼ in. Polished Plate at Special Prices.	

Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	Per ft. sup. s. d.
18 oz. sheet O.Q.	3,000	4⅞
24 oz. ,, ,, ...	2,000	6¾
26 oz. ,, ,, ...	2,000	8¾
32 oz. ,, ,, ...	2,000	11¾
⅛ in. Rolled Plate	1,000	8⅛
⅛ in. Figured Rolled and Cathedral Standard Patterns, White	1,000	8⅛
⅛ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte...	1,000	11⅞
3/16 in. and ¼ in. Rolled Plate or Rough Cast ...	2,000	1 0
¼ in. Wired Cast, Hexagonal...	2,000	1 2
¼ in. Georgian Wired Cast	2,000	1 2½

The Builder

CURRENT RATES OF WAGES

AS FROM APRIL 16, 1956. (Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification.	A	A1	A2
Craftsmen	4/3½	4/3	4/2½
Labourers	3/9	3/8½	3/8

Town.	*Grade.*
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A2
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A2
Amersham	A1
Ammanford	A
Andover	A2
Anglesey, Isle of	A2
Ardingly	A2
Arundel	A2
Ascot	A2
Ashbourne RD	A2
Ashbourne UD	A2
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A2
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A2
Atherstone RD	A
Attleborough	A2
Axminster	A2
Aylesbury	A2
Aylesham	A2
Bagshot	A2
Bakewell UD	A2
Banbury	A1
Bangor	A2
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A2
Barrow-in-Furness	A
Barrow-upon-Soar RD (exc. Thrussington A2)	A
Barry	A
Basford RD (exc. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A2
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A1
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A2
Bideford	A2
Biggleswade	A2
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A2
Birkenhead	*
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishops Castle MB	A2
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A2
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A2
Bognor Regis	A2
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A
Bournemouth District	A
Brackley MB	A2
Bracknell	A2
Bradford CB	A
Bradford-on-Avon	A2
Braintree	A1
Brandon & Byshottles UD	A
Brecon—Borough of	A1
Breconshire, County of	‡A2
Brent Knoll	A2
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A1
Bridgnorth MB	A1
Bridgnorth RD	A2
Bridgwater	A1
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A2
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A2
Buckingham	A2
Buckley	A
Bungay	A2
Burnham-on-Crouch	A2
Burnham-on-Sea	A2
Burnley	A
Burton-on-Trent C.B.	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A2
Caernarvonshire, Cnty. of	‡A2
Calder Valley	A
Camberley District	A2
Cambridge	A
Cannock UD	A
Canterbury	A2
Cardiff	A
Cardiganshire, County of	‡A2
Carlisle	A

CURRENT RATES OF WAGES—Continued

Town.	Grade.
Carlton UD	A
Carmarthen—Borough of	A1
Carmarthenshire, Cnty of	‡A2
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A2
Charmy Down	A
Chatham District	A
Chatteris	A2
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A1
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A2
Chipping Norton	A2
Chipping Sodbury	A2
Chippenham (inc. Chippenham Within and Hardenhuish)	A2
Cirencester	A2
Chorley	A
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A1
Congleton	A1
Consett UD	A
Conway	A1
Corby UD	A
Cornwall, County of	‡A2
Corsham District	A
Coventry CB	A
Cranbrook	A2
Cranleigh	A2
Cranwell Aerodrome Site	A1
Crawley	A1
Crewe	A
Crewkerne	A2
Cromer	A1
Crook and Willington UD	A
Crowborough	A2
Cuckfield	A2
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A2
Darwen	A
Daventry MB	A2
Deal	A2
Denbigh Town	A2
Derby CB	A
Devizes	A2
Devon, County of	‡A2
Dewsbury CB	A
Didcot	A2
Diss	A2
Doncaster CB	A
Dorchester	A2
Dorking	A
Dorset, County of (excepting Poole, Swanage and Wimborne A1)	A2
Dover	A2
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A2
East Kesteven RD	A2
East Retford MB	A
Eastwood (Notts) UD	A
Ebbw Vale & District	A
Edenbridge	A2
Ely	A2
Epping	A
Evesham MB	A2
Exeter	A
Exmouth	A2
Fakenham	A2
Falmouth	A2
Fareham	A
Faversham	A2
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A2
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A2
Gillingham (Kent)	A1
Glastonbury & Street	A2
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A2
Godalming	A2
Goole, MB	A
Goole RD (part—Airmyn, Hook)	A
Gosport	A
Grantham MB	A
Gravesend	A
Grays Thurrock UD Area	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A
Guildford District	A2
Halesowen MB	A
Halifax CB	A
Halstead	A2
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A2
Harwich	A
Haslemere	A2
Hastings	A2
Hatfield (Herts)	A
Havant	A
Haywards Heath	A2
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A2
Hereford	A2
Herefordshire, Cnty. of	‡A2
Herne Bay	A2
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A2
Horncastle UD	A2
Horsham	A2
Horwich	A
Huddersfield CB	A
Hull	A
Hunstanton	A2
Huntingdon (Staffs)	A
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A2
Isle of Thanet	A2
Isle of Wight	A2
Ilfracombe	A2
Jarrow B	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A2
Leominster	A2
Letchworth	A
Lewes	A2
Lichfield MB	A
Lincoln CB	A
Liskeard	A2
Littlehampton	A2
Liverpool	*
Llandudno	A1
Llanelly (incl. Llanelly RD)	A
Llanfairfechan	A2
Llangollen	A2
London	*
Long Eaton	A
Looe	A2
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A2
Ludlow MB	A2
Ludlow RD	A2
Luton	A
Lyme Regis	A2
Lyneham (Devon)	A2
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A2
Malvern UD	A1
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A2
Margate	A2
Market Harborough RD	A1
Market Harborough UD	A
Market Rasen UD	A2
Martock	A2
Maryport	A
Matlock UD	A
Melksham	A2
Melton Mowbray UD	A1
Merionethshire	A2
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A2
Milford Haven UD	A1
Minehead	A2
Monmouth—Borough of	A1
Monmouthshire	A1
Morecambe	A
Moreton Valence	A2
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A2
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A2
Newcastle-on-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A2
Newquay	A2
Newton Abbot	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A2
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A2
Oakham UD	A2
Okehampton	A2
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A2
Oundle UD	A2
Oxford	A
Oxted	A1
Padstow	A2
Paignton	A1
Par	A2
Pembrokeshire (except Milford Haven)	A2
Penmaenmawr	A2
Penrith UD	A1
Penzance	A2
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A2
Pickering	A2
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A2
Pudsey MB	A
Pulborough	A2
Radnorshire, County of	‡A2
Ramsgate	A2
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks)	A
Ripon MB	A2
Rochdale	A
Rochester	A1
Ross-on-Wye	A2
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A2
St. Albans	A
St. Austell	A2
St. Helens	A
St. Neots	A2
Salisbury City	A2
Salisbury Plain	A2
Sandy	A2
Sawbridgeworth	A
Saxmundham	A2
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A2
Selby UD	A
Sevenoaks	A
Shaftesbury	A2
Sheerness	A2
Sheffield MB	A
Shepton Mallet	A2
Sherborne	A2
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A2
Skegness UD	A1
Skipton UD	A
Sleaford UD	A1
Slough, Windsor & Eton District	A
Smethwick CB	†A
Snettisham	A2
Solihull UD	A
Somerset, County of	‡A2
Southampton and Eastleigh	A
Southend-on-Sea Dist.	A
Southport	A
South Shields CB	A
Southwold	A2
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A1
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stourport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A2
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A2
Tavistock	A2
Tenterden	A2
Teignmouth	A2
Tewkesbury	A1
Thames Haven	A
Thetford	A2
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC Area	A
„ North of to Billericay	A
Tilbury	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A2
Trowbridge	A2
Truro	A2
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppingham (Salop)	A1
Uttoxeter RD	A2
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Wallsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A2
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A2
Wells (Norfolk)	A2
Wells (Somerset)	A2
Welwyn	A
Welwyn Gar. City	A
West Bromwich CB	A
Westbury	A2
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland (except Kendal)	A2
Weston-super-Mare	A1
Weybridge	A
Weymouth (including Portland Bill, excluding Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable and District	A2
Wickford	A
Widnes	A
Wigan	A
Wigton	A2
Wilmslow	A
Wilts. County of	‡A2
Wimborne	A1
Wincanton	A2
Winchester	A1
Windermere	A2
Wisbech	A2
Witham	A1
Withernsea UD	A
Woking	A1
Wokingham	A2
Wolverhampton CB	A
Wolverton District	A2
Woodbridge	A2
Woodhall Spa UD	A
Woodstock	A2
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A2
Wrexham (incl. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A2
Yate	A2
Yeovil Borough	A1
York CB	A
Ystalyfera	A

For Birkenhead, Liverpool and London the rates are:—Craftsmen, 4s. 5d.; Labourers, 3s. 10½d. In the case of London the rate beyond the 12-mile radius is: Craftsmen, 4s. 4½d.; Labourers, 3s. 10d. †Plus 2d. per working day. ‡This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops, receive 2d. per day; when employed on other building industry work, 4d. per day.

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 3s. 5d. per hour. Women engaged on work other than craft processes, 3s. 1d. per hour.

For Building Trade Wages in Scotland see page 259.

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are a Dry Fixing

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Rawlbolts are made in all sizes from $\frac{3}{16}''$ to 1″ bolt diameter, Whitworth thread. There are two types, Bolt-projecting and Loose-bolt. The latter is specially useful for heavy equipment because bolts can be inserted after the fixture has been placed in position.

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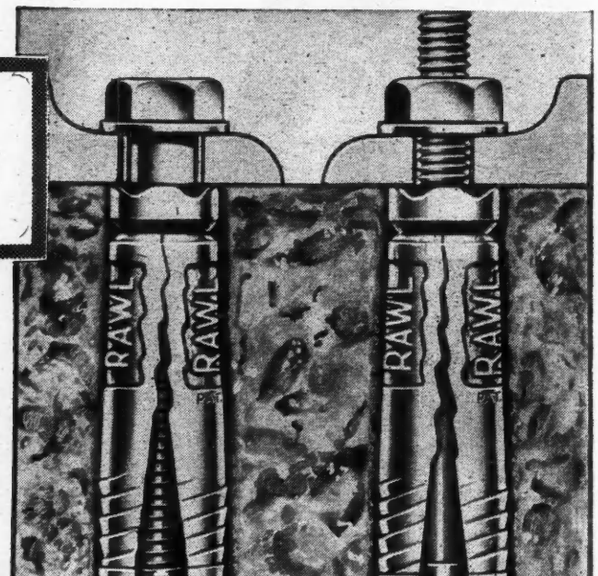

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NEWS IN BRIEF

Certificate of Craftsmanship

THE Nottingham and District Association of Building Trades Employers is sponsoring an annual award of a certificate of craftsmanship. The award is being supported by the local societies of builders, architects and quantity surveyors. It is to be made in two classes: (1) for the general excellence of workmanship on a particular building, and (2) for an individual piece of craftsmanship in any material normally used in the building.

BTC New Rating Committee

A new committee to be known as the Estate and Rating Surveyors Committee has just been set up by the British Transport Commission to ensure co-ordination between all Divisions on matters relating to the Commission's property. The Secretary will be Mr. R. W. Boorman, assistant estate and rating surveyor to the BTC at 222, Marylebone-road, London, NW1. The British Transport Commission have a gross rent roll exceeding £8,000,000 a year.

Roofing Training Scheme

Since September, 1955, 105 employees of member firms of the National Federation of Roofing Contractors have received specialised instruction in the fixing of asbestos cement. This is the result of a national training scheme organised by the Federation with the full co-operation of the Asbestos Cement Manufacturers. Courses have now been carried out for the benefit of roofing contractors in the London, Birmingham, Leeds, Manchester and Newcastle areas, a total of ten weeks in all, spread over the past nine months.

Sound Insulation

The Building Research Station has issued its Digest No. 88 for May which deals with sound insulation of dwellings. Grades of insulation are described and some useful charts are given. Wall construction is also dealt with and the best thicknesses and grades to work with are shown. The Digest can be obtained, price 3d., from HMSO.

Management Medal

Mr. E. F. L. Brech, management consultant and well-known author and speaker on management subjects, has been awarded the Bowie Medal for 1955 by the Institute of Industrial Administration. The medal is awarded annually to a member of the Institute for a noteworthy contribution to management. Mr. Brech is a senior partner of the firm Urwick, Orr and Partners, Ltd.

Colour Films at Meetings

A feature of a series of Group meetings to be held by the Federation of Master Builders will be the showing of a colour film made by Messrs. Robert and William Old, on the visit of a delegation of the Federation which toured America and Canada in March of this year. Details of the meetings can be obtained from the Federation at 26, Great Ormond-street, WC1.

AUBTW General Secretary

Mr. G. H. Lowthian has been re-elected general secretary of the Amalgamated Union of Building Trade Workers for the next five years.

Contemporary Tiles

Some particularly charming tiles of contemporary design intended for use in modern homes and public buildings are being manufactured at the small pottery attached to Queen Elizabeth's Training College for the Disabled, Leatherhead Court, Surrey. The tiles, which have been designed by the pottery manager, Mr. Alistair Macduff, are made by severely disabled workers, who are quite unfit to earn their living in the outside world. The undertaking is non-profit-making, any financial gain being devoted solely to the cause of these unfortunate people. The tiles are of a high standard technically as well as artistically, and the policy is to offer them for sale on their merits, and not out of sympathy for what is, nevertheless, a very good cause.

INSTITUTE OF CLERKS OF WORKS

Examination Results

THE examinations for Clerks of Works were held at the Royal Institute of British Architects, London, during June. The list of successful candidates is as follows:—

PART II (FINAL).

F. Bratt, Denton, Lancashire; K. J. Brown, Portsmouth; P. L. Carroll, Gloucester; W. A. G. Carter, Newbury, Berks; W. H. H. Deacon, Beckenham, Kent; K. Fletcher, Littleborough, Lancs; W. E. Fletcher, Northampton; A. Ford, Nilnthorpe, Westmorland; E. G. Fuller, London, SW17; H. Gent, Welwyn Garden City, Herts; H. D. Greenland, Crewe, Cheshire; and W. R. Greeves, King's Lynn.

W. A. Hatt, Fleet, Hants; R. F. Jones, Stevenage, Herts; W. Knight, Bangor, Caerns; R. H. Loxton, Hounslow, Middlesex; J. Mahoney, Manchester; R. Newton, Woking, Surrey; J. D. Sims, West Handley, Derbyshire; H. Slack, Sheffield 10, Yorks; G. J. Slater, Lichfield, Staffs; C. J. W. Sommerville, Upper Tooting, SW17; P. L. Teale, Ripon, Yorkshire; D. S. Vaughan, Rhondda, Glam; and H. Wells, Hornchurch, Essex.

The following passed the examination in Edinburgh: D. Findlay, Edinburgh; J. K. McDougall, Greenock; N. C. Stewart, Sunderland, Co. Durham; and J. Thomson, Rutherglen, Glasgow.

The following passed the examination in Belfast: H. M. Smyth, Belfast.

The following passed in three groups in July, 1955, and this time completed the examination: J. J. Dey, Arbroath, Angus; G. L. Dundas, Sheffield 12; R. C. Hayes, Horsham, Sussex; R. D. MacKay, Grangemouth, Stirlingshire; T. Newton, Worksop, Notts; and F. Snape, Blackburn, Lancs.

The following passed in two groups in July, 1955, and this time completed the examination: T. J. Barrow, Chester; H. Brennan, Urmston, Manchester; F. Copestake, Dunstable, Beds; and A. A. Tait, London, SE24.

Passed in three groups out of four: J. R. Beal, Barrow-on-Trent, Derby; H. N. Curry, Portadown, Co. Antrim, Northern Ireland; P. Ford, Winchester; C. J. Gandy, Widnes, Lancs; W. G. Gordon, Glemsford, Suffolk; G. W. Rumsey, London, SE9; and J. Snow, Chorley, Lancs.

Passed in two groups out of four: R. Buckle, Wallasey, Cheshire; D. J. Litchfield, Long Eaton, Notts; D. Maclachlan, Motherwell; E. Mashiter, Higher Whitley, Monmouthshire; T. B. Penny, Portrush, Co. Antrim, Northern Ireland; J. Topping, Kells, Co. Antrim, Northern Ireland; R. Walker, Lemington, Newcastle-on-Tyne; and H. Wilcox, Usk, Monmouthshire.

As arranged with the War Office, S/Sgt. L. Beck, BEM, RE, sat for the examination in Singapore. He passed in all four groups and will take the oral examination on his return home.

RECENT BRITISH TRADE MARKS

THE following particulars, which are extracts from the *Trade Marks Journal*, are reproduced with the permission of the controller of HM Stationery Office. The *Trade Marks Journal* can be obtained from the Patent Office, annual subscription £5.

FLEXIGLOSS: 752744. Lacquers and coatings (in the nature of paint) all for use on rubber. Swale Chemicals, Ltd., Street Four East, Aycliffe, Darlington.

PERMOPATCH: 752898. Filling preparations (in the nature of paint). Permoglaze, Ltd., James-rd., Tyseley, Birmingham, 11.

CHROME LOCK: 752357. Felt prepared for use in building and for roofing and included in Class 19. The Products Research Co., 5426, San Fernando-rd., Glendale 3, California, USA.

WARDOLENE: 751711. Paints, varnishes, enamels, painters' colours and distempers. Ward Paints, Ltd., Victoria-rd., South Shields.

CURTWALL: 753143. Putty. Dussek Bros. & Co., Ltd., Jolly Farmers Wharf, Thames-rd., Crayford, Kent.

ROSANEX: 753203. Paints. Sir W. A. Rose & Co., Ltd., Shepherds-la., London, E9.

GRADAR: 753457. Paints, varnishes, enamels and painters' colours. Screeton Paintmaker, Ltd., Fishers-ct., SE14.

NYLEX: 748917. Pipes and tubes, all for use in building and civil engineering construction and all made of nylon. Evered and Co., Ltd., Surrey Works, Lewisham-rd., Smethwick, Staffs.

ROOFANOE: 751515. Roofing material (not of metal). F. A. Hughes & Co., Ltd., Devonshire-ho., Mayfair-pl., London, W1.

SYNTHANITE: 753780. Flooring materials consisting wholly or principally of synthetic anhydrite. Morris Rubber Industries, Ltd., High-rd., Byfleet, Surrey.

PREVENIT: 752879. Paints and coatings (in the nature of paint). The Clariloid Chemical Co., Ltd., Town Hall-bldgs., Wells, Somerset.

THIXOGLOSS: 753304. Non-bituminous high gloss paints. William, Sim & Sons (Paints), Ltd., 40, Jane-st., Edinburgh, 6.

SUPRAMUR: 752967. Paint. Supra Chemicals and Paints, Ltd., Hainge-rd., Tividale, Tipton, Staffs.

SILTEX: 745978. Glazed ceramic tiles for interior use. T. & R. Boote, Ltd., Waterloo-rd., Burslem, Staffs.

ASCEMCO: 752973. Non-metallic jointing material for use with asbestos in building construction. Supra Chemicals and Paints, Ltd., Hainge-rd., Tividale, Tipton, Staffs.

DURUNDUM: 753217. Unglazed ceramic tiles for use in making floors. DUROFROST: 753305. Glazed tiles made of ceramic materials for use in making floors. Richard Tiles, Ltd., Woodland-st., Turnstall, Staffs.

GLASTICORD: 753899. Putty in extruded form. Kelsey Industries, Ltd., Mellier-ho., Albemarle-st., London, W1.

PERMACOLOR: 753145. Roofing felts. Permanite, Ltd., 455, Old Ford-rd., London, E3.

BITUGLAS: 753629. Roofing felt composed principally of bitumen and glass fibre. William Briggs & Sons, Ltd., Camperdown Refinery, East Camperdown-st., Dundee.

Cement Makers on Accidents

The 1955 Report of the Accident Prevention Advisory Committee of the Cement Makers' Federation, Terminal House, 52, Grosvenor-gardens, has been published. The Committee has done some very valuable research into the type of accidents, loss of man-hours, types of injuries and accidents by departments. The report advises that there is a limit to the number of accidents that can be prevented by management. It states that ceaseless education designed to train each man to be his own safety officer yields a bigger dividend.

OVERSEAS BUILDING

From Our Own Correspondents

AUSTRALIA.—A modern hotel, to cost £1½m., is to be erected at King's Cross, Sydney, by Hotel Sydney Ltd. Tentative plans are for an 11-storey building extending later to 15-storeys, and designed to provide first-class accommodation for the tourist trade. . . . The United Carbon Co. of Charleston, West Virginia, is joined with an Australian company, Shell Chemical (Australia) Ltd., in a new plant to make the major types of equipment required by the Australian rubber industry. The factory will adjoin the Shell Co's. refinery at Geelong, Victoria, and will be the only carbon black plant operating in the Southern Hemisphere. It will cost £2m.

A new factory for Nicholas Ltd., at Homesglen, which will have an area of 220,000 square feet will further the scope of the pharmaceutical industry in Australia. The factory will cost £1m. and sufficient land has been secured for doubling the plant. It will be sufficiently large to employ 400 workers. . . . Hawksley Australia Ltd., a newly registered company with a capital of £100,000 and representative of United Kingdom interests, is to make and assemble aluminium buildings in Australia. The company is now examining suitable manufacturing sites in the various States. The director and general manager of the new company, Mr. R. V. Lloyd, stated recently that it seems possible to export aluminium prefabricated buildings to the Pacific Islands and to other overseas areas.

AUSTRALIA.—The first work in providing a new port for the Queensland city of Bundaberg, at a cost of £A1½m., is to start this year, possibly within the next two months. The Chairman of the Bundaberg Harbour Board, Mr. Peake, said if it were kept to schedule, the port would be opened by the end of 1958. The new port will be located a mile and a half inside Burnett Heads. Repeated floods had silted up the old river port and dredging had become a hopeless proposition.

INDIA.—With the ending of the Government's first five-year plan in March, the second five-year plan has now been published. None of the figures or proposals quoted should be regarded as inviolable since the plan is intended by the Government of India's Planning Commission to be worked in a flexible manner and adjustments may be made during the period of the plan in the light of economic and financial trends. Irrigation and power schemes are not a prominent feature of the plan.

In this coming period several of the major projects begun in the first plan will be completed. There will, however, be a move in the direction of building medium and small irrigation works at Ukai, Tawa, Narmada, Salandi, Banas, Barna and Vamasadhara. Provision is also being made for the construction of 3,581 tube wells to provide irrigation to an area of 916,000 acres. The main new power schemes to be started in the new period are at Ukai, Chambal, Sileru, Tungabhadra, Korba and Kundah and the Southern Grid will also be extended.

A heavy steel foundry will be established at the Chittaranjan Locomotive Works which will provide heavy castings for the railways. The National Industrial Development Corporation will provide funds for heavy foundry and forge shops and heavy structural shops. A number of tools companies are also to be extended by the NIDC. . . . In addition to the fertiliser project at South Arcot, two more fertiliser factories will be set up, one at Nangal to produce ammonium nitrate, and the other at Rourkela to produce nitro limestone.

The Visakhapatnam shipyard will be expanded under the new plan and the Chittaranjan locomotive factory will be enlarged. Provision is also made for the establishment of a dry dock at Visakhapatnam for preparatory work in connection with the establishment of a second shipyard. A project for manufacturing heavy marine diesel engines is also envisaged. The integral coach factory at Perambur will be completed and a metre-gauge coach factory established. A paper mill will also be set up.

State Government projects in the plan also include the expansion of the Mysore Iron and Steel Works, a coke oven plant at Durgapur, the re-organisation of the Praga tool factory in Hyderabad and the creation of additional capacity in the Uttar Pradesh cement factory and the Bihar superphosphate factory. In the private sector, new industrial developments include the expansion of the Tata Iron and Steel Company and of the Indian Iron and Steel Company, the setting up of a new aluminium plant, the expansion of cement production to 13m. tons and the stepping up of automobile production.

The principal bridging work on railways to be carried out will be the completion of the Ganga bridge and work will be started on three new bridges across the Brahmaputra, the Jumna and the Gankak. Some £30m. is to be spent on ports developments. This includes work at Calcutta mainly for improvement and development of docks and berths at King George's Dock and Kidderpore Dock, development of Princes and Victoria Docks, the first stage of a new wet dock scheme for Madras, and the construction of jetties at Cochin and Kandla. Eight new aerodromes are to be built at a cost of £7m. approximately.

NEW ZEALAND.—The growth in the number of schoolchildren in New Zealand will necessitate the building of 100 new schools besides additions of classrooms to another 166 schools. This was stated recently by the Minister of Education, the Hon. R. M. Algie. . . . The Government has selected an area in Northcote on Auckland's North Shore, as the site for the Royal New Zealand Navy's new training college. The college will train recruits, and will replace the present training establishment on Motuihe Island. . . . Replacement of the Auckland police headquarters and central police station is included in a three-year programme of major police building which has been approved in general by the Government. It is also planned to replace the headquarters at Whangarei, New Plymouth, Gisborne, Napier, Nelson, Timaru, possibly also at Dunedin and Invercargill, and eventually at Wanganui.

RHODESIA.—The firm of Hampton and Sons, Ltd., London, and their Rhodesian associates, Ronald Hayes and Partners (Pvt), Ltd., Salisbury, Southern Rhodesia, have negotiated the purchase for English clients of a 5,250-acre farm about nine miles from the centre of Salisbury and it is proposed that a new European township shall be constructed there. The plans for a high-density, low-cost township on about half of the estate have already been passed by the local authority. It is proposed that it will be called the New Cerney Township as a compliment to North Cerney in Gloucestershire, the home of one of the Trustees.

The first 6,000 living units are being planned and it is intended that the township will be self-contained with its own cinema, churches, shopping centre and sports field and it will serve as a dormitory for Salisbury's industrial area. The workers will be able to travel direct to their jobs without traversing the city centre.

It is hoped that the work will be put out to tender within the next 12 months and should begin in about a year from now. This is an enterprising development which will fulfil part of Salisbury's urgent needs for more accommodation on the outskirts of the capital.

SPAIN.—It has been reported that a concern styled "Fabrica de Pasta de Celulosa al Sulfato de Galicia" is to be formed under the auspices of the Instituto Nacional de Industria for the production of wood pulp. A factory costing £5m. is to be situated at Lourizan, near Pontevedra. An initial annual production of 20,000 tons of raw pulp and 10,000 tons of bleached pulp is envisaged with the possibility of doubling this output later. . . . Another company called "Sociedad de Tableros de Fibras" is reported to have placed a contract for the building of a factory near Pontevedra to manufacture wood fibre boards.

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Prepared by:
The National Federation of Building Trades Employers, London, W.1.

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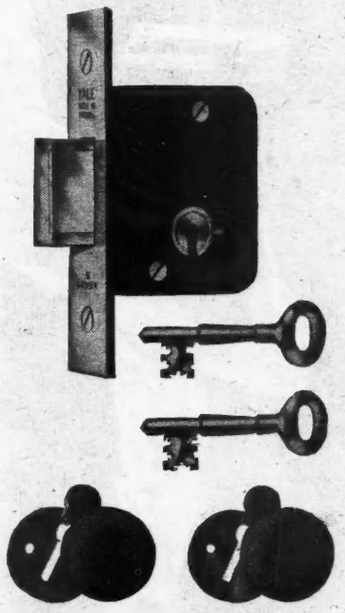

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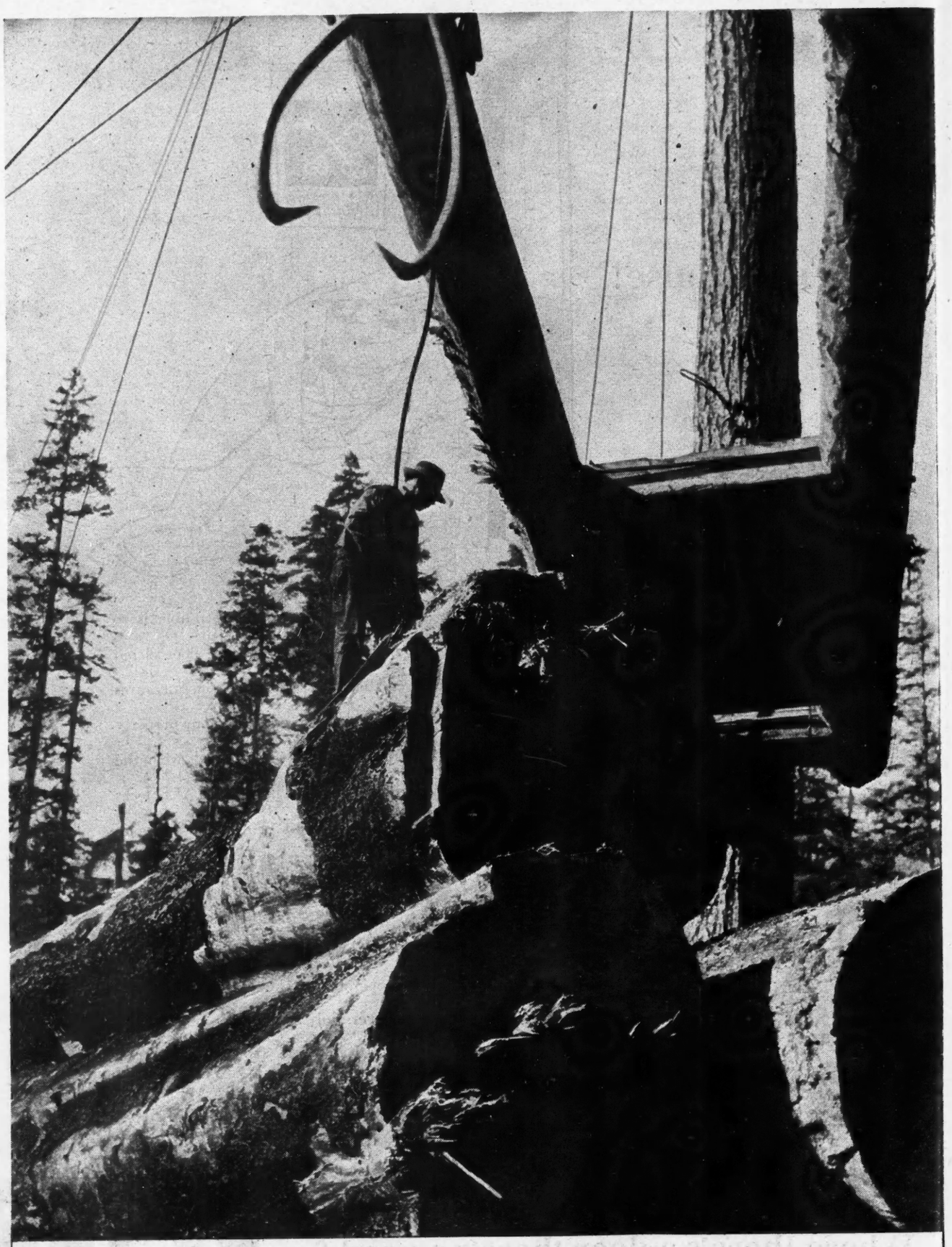

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AFRICAN BUILDING

From a Correspondent

Gold Coast: A school to train men engaged in the building trade has been set up by the Public Works Department at Weija, in the Gold Coast. Training is offered to the level of City and Guilds standard.

Johannesburg: Building in Johannesburg has dropped by more than £2,000,000 in the first six months of this year, compared with the same period in 1955. The municipal building survey branch approved plans for 2,247 buildings costing £7,781,405 from January to June this year and last year approved 2,712 buildings at a cost of £10,111,135. The main decrease is in the number of flats built.

Kroonstad : £348,000 is to be spent by the Provincial Administration on schools, hospitals and other provincial buildings in Kroonstad and the goldfields during the current financial year, as the latest instalment of a programme to cost more than £1,795,000, and of which about £550,000 has been spent.

Johannesburg: A new skyscraper car park to house 500 cars, is to be built in Johannesburg on a half-acre site. It will be 15 storeys high and will cost more than £500,000.

Nigeria: On behalf of the Western Region Production Development Board of Nigeria, Mr. A. M. M. Spurr, Senior Geologist, will soon conduct a search for cement materials in Ijebu Province.

Orange Free State: Odendaalsrus is to get new Government buildings to the value of about £500,000. These include a new magistrate's court and revenue offices at a cost of £98,000, a new post office to cost more than £100,000, and new headquarters for the South African Police in the goldfields to the value of about £300,000. Welkom Village Management Board will erect buildings to the value of more than £700,000 during the present financial year. About £50,000 has been voted for the new market building which, when completed, will cost £150,000. Provision has also been made for the erection of a £400,000 town hall.

At Virginia, which was proclaimed a township only in January, 1954, building plans totalling £2,736,140 for 751 buildings were passed in the year ended June 30, 1956.

Port Elizabeth: A new £200,000 building is being put up for the Standard Bank in Port Elizabeth. To be built of polished granite and reconstructed stone, it will have ten floors in all. Excavations on the buildings have begun.

Agency for Fork-lift Trucks

* Aerflo (Pty), Ltd., of 609, Commercial Exchange Building, 7, Harrison-street, Johannesburg, wish to get in touch with UK manufacturers of petrol and diesel fork-lift trucks and similar equipment, with a view to taking on their agencies. (Tel.: Chancery 4411, ext. 776, ref. No. ESB/14529/56.)

* From the Board of Trade Special Register Information Service. The telephone number and extension at the end of the paragraphs relate to the department of the Export Service Branch, Lacon House, Theobalds-road, WC1, where further information can be obtained.

Tractors and Trailers, SA

* The Stores Department of The South African Railways, Johannesburg, is calling for tenders for the supply of 25 tractors in accordance with specification Auto 11/56; and 50 semi-trailers in accordance with specification Auto 11/56. The closing date for tenders is September 21. (Tel.: Chancery 4411, ext. 738 or 771, ref. No. ESB/19492/56.)

Wharf and Transit Shed

*The Portland Harbour Trust Commissioners of Portland, Victoria, Australia, are inviting tenders for the construction of the new wharf to the designs of the trust. The wharf is a reinforced concrete structure of the relieving platform type, 1,360 ft. long by 57 ft. wide. Piles are 26 in. diameter steel tubes filled with reinforced concrete after driving. Water depth alongside is 36 ft. and piles are 5 ft. average length spaced 13 ft. centres both ways.

Tenders are also invited for the design, manufacture, delivery and erection complete of a steel-framed transit shed 500 ft. by 120 ft., complete with piled foundations, concrete platform wall and plinth wall, concrete slab floor and stormwater drainage. Tenders close with the trust on October 31, 1956. (Tel.: Chancery 4411, ext. 738 or 771, ref. Nos. ESB/18781/56; wharf construction. ESB/18782/56; transit shed.)

The SCOTTISH BUILDER

More Houses Under Construction

A TOTAL of 8,284 new houses was completed in Scotland during the three months ended June 30, 1956. This compares with 8,671 built in the corresponding period last year. The number of houses under construction at the end of June was 37,863, compared with 36,107 at the same date in 1955.

Under the post-war housing programme 271,624 new permanent houses have been completed. Of these, 205,379 were completed by local authorities, 34,625 by the Scottish Special Housing Association, 5,511 by New Town Development Corporations, and 19,815 by private enterprise. Other housing associations and Government departments have built 1,152 and 5,142 dwellings respectively.

These facts are given in the quarterly Housing Return of the Department of Health for Scotland, published on August 3 by HMSO (price 1s.).

The return shows that local authorities completed 5,825 houses during this period, and had 29,063 under construction. Houses completed by the Scottish Special Housing Association totalled 545, compared with 1,089 in the second quarter last year, and the Association had 3,338 in building.

Since 1945, 7,795 houses have been converted or adapted without any exchequer assistance. Since 1950, when grants became available, 854 houses were adapted or converted with assistance. In the same period, there were 7,402 grant-aided improvements, of which 7,143 were carried out by private owners, 255 by local authorities, two by housing associations and two by new towns.

The table of completions by individual local authorities and other agencies in their areas shows that since January, 1945, 42,628 houses were completed in Glasgow, 14,785 in Edinburgh, 9,117 in Aberdeen, and 9,594 in Dundee. 15,681 houses were built in Lanarkshire and 10,363 in Ayrshire.

THE ORGANISATION OF BUILDING FIRMS

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SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from April 16, 1956. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen 4s. 3½d.; Labourers 3s. 9d.

For apprentices, the rates are:

Year.	Percentage of Craftsman's rate.	For week of 44 hours. s.	d.
1st	25	47	2½
2nd	33⅓	62	11½
3rd	50	94	5
4th	66⅔	125	10½
5th	75	141	7½

For female labour, the rates are:

	s.	d.
Operatives on craft operations (at end of probationary period)	3	9
Operatives on labouring operations (at end of probationary period)	3	5½

NEW BUILDINGS

Aberdeen.—Plans in hand for new Church of Scotland which is to be erected (est. cost of £20,000) at the Summerfield housing development scheme.

Argyllshire.—Plans prepared for new classrooms and gymnasium as extensions to the Prot. sch. of Bowmore. A and QS: William Tocher (F) and David Bryden Macfarlane Johnstone, Planning and Architectural Dept., County Offices, Alexandria-par., Dunoon.

Ayr.—Plans prepared for new schemes of houses at Ellasland and the Forehill housing development sites. A: J. Austen Bent (A), 15, Palmerston-pl., Edinburgh.

Ayr.—Plans prepared by the architects, A. Jeffrey & Co., Ltd., Lomonds Wynd, Ayr, have been approved for new buildings (est. cost of £17,750) at York-st.

Bothwell.—Plans approved for new houses at the Woodlands housing development site. A&QS: D. Pollock Smith (F), and Thomas A. Penman, Planning and Architectural Dept., County-bldgs., Beckford-st., Hamilton West.

Ellon.—Plans in hand for extension to the Academy (est. cost of £21,000). Council A:

Alexander Macgill (F), County Offices, Union-ter., Aberdeen.

Forfarshire.—Plans approved for the new TA centre (est. cost of £40,000) at a site at Arbroath.

Glasgow.—Corporation is considering the erection of 1,100 houses, for which plans are in hand, at the Blairdadrie housing development site.

Glasgow.—Plans prepared for additions and alterations at Drumchapel-rd. A: Alexander Paton, 31, Balnavie-rd., Glasgow, WC1.

Glasgow.—Plans prepared by the architects of Colvilles, Ltd., Dalziel, Motherwell-Wishaw, for alterations and additions at West George-st.

Glasgow.—Plans prepared by the engineers of G. & J. Weir, Ltd., Holm Foundry, Cathcart, Glasgow, for additions, including water tower, at Norlands-rd.

Glasgow.—Plans prepared for a new building at Corrour-rd. A: Robert Reid (F), 15, Dunrod-hill, East Kilbride.

Glasgow.—Plans approved for new business premises at Lightburn-rd. A: Alexander D. Holmes (F), 97, West Regent-st., Glasgow, WC2.

Glasgow.—Plans prepared for Gordon Highlanders (Glasgow), Ltd., Claremont-gdns., for additions and alterations at Ashley-st. A&QS: Gladstone, Browne & Muir (F), 102, Bath-st., Glasgow, WC2.

Glasgow.—Plans prepared for Drysdale & Co., Ltd., Scotstoun, Dunbartonshire, for alterations and additions to the factory at Bulldale-st. A: John Keppie & Henderson and James L. Gleave (FF/A), 21, Woodside-pl., Glasgow, WC3.

Glasgow.—Plans in hand for the Scottish Agricultural Industries, Ltd., 39, Palmerston-pl., Edinburgh, for alterations and additions at Admiral-st. and Milnpark-st. A: Crouch & Hall, 18, Woodside-cres., Glasgow, WC3.

Glasgow.—Plans prepared for Messrs. Harland and Wolff, Ltd., Govan Shipbuilding Yard, for new buildings at Clydebrae Works. A: Hobert & Heron, Commercial Bank-bldgs., Belfast.

Greenock.—Plans in hand for two schemes of houses on stilts, one of 41 three- and 17 four-apartment houses in two large blocks of three storeys, and five blocks of cottage type and semi-detached on selected sites. A: Robert L. Rankine, Planning and Architectural Dept., Master of Works, Municipal-bldgs., Hamilton-st., Greenock.

Hamilton.—Plans to be prepared by the architects to the Church of Scotland, George-st., Edinburgh, for scheme of reconstruction and additions at Wellhall, Lanarkshire (est. to cost £25,000), for home.

Inverness.—Plans prepared by the architects of Scottish Oils, Shell Mex & BP, Ltd., 53, Bothwell-st., Glasgow, WC2, have been approved for new buildings (est. cost of £50,000) at Cromwell-rd. and Citadel-quay.

Lanarkshire.—Plans prepared by the architects of Laidlaw (Airdrie), Ltd., South Biggar-rd., Airdrie, have been approved for new showrooms and offices (est. cost of £15,000).

Lanarkshire.—Sketch plans have been approved for a new secondary wing to the new Cath. sec. sch. at the Orbiston housing development site, Bellshill (est. cost of £161,970). Council A: William R. Watt (F), Education Planning and Architectural Dept., Albert-st., Motherwell-Wishaw.

Lanarkshire.—Plans approved for new scheme of 352 houses and 55 garages which are to be erected as a first development of the Calderwood housing site, East Kilbride. A: Frank Scott (L), Torrence-ho., East Kilbride.

Lanarkshire.—Plans approved for 130 houses at East Parkhead housing development site, Lanarkshire. A&QS: D. Pollock Smith (F) and Thomas A. Penman, Planning and Architectural Dept., County-bldgs., Beckford-st., Hamilton West.

Lanarkshire.—Plans approved for new buildings at School-la., High Blantyre. A: William Jamieson & Son, 114, Glasgow-rd., Burnbank, Hamilton.

Perthshire.—Plans prepared for new mental clinic which is to be erected at the Royal Infirmary, Perth.

Stirlingshire.—Plans approved for reconstruction scheme to Falkirk Council Buildings at Carron-rd., Falkirk. Council A: A. J. M. Currell (F), Master of Works Offices, Falkirk.

Stirlingshire.—Plans approved for three-apartment houses at the Newpark-rd. development site, Borestone. A: J. Austen Bent (A), 15, Palmerston-pl., West End, Edinburgh.

Stirlingshire.—Plans approved for new Prot. prim. sch. (est. cost of £100,000) at a Bantaskine site at Falkirk. A: Alexander J. Smith (A), Planning and Architectural Dept., Old Infirmary-bldgs., Spittall-st., Stirling.

NEW COMPANIES

THE FOLLOWING NEW COMPANIES, registered in England, have been announced by Jordan and Sons, Ltd., company registration agents.

James E. Poor and Son, Ltd. (567719.) Regd. June 18, 1956. 86, Oakwood-rd., Bricket Wood, Herts. Bldrs. Nom. cap.: £1,000. Dir.: Alma E. J. Poor.

J. H. Stant, Ltd. (567707.) Regd. June 16, 1956. Ninth-st., Third-ave., Trafford Park, Manchester, 17. Bldrs. Nom. cap.: £3,000. Dir.: J. H. Stant, 7, Mainwood-rd., Timperley, Ches.

T. L. Eyre, Ltd. (567702.) Regd. June 16, 1956. 77, Linaker-rd., Sheffield. Bldrs. and contrs. Nom. cap.: £1,000. Dir.: T. L. Eyre.

A. Roberts and Co. (Building Contractors), Ltd. (567713.) Regd. June 16, 1956. 79, Eccleston-sq., SW1. Nom. cap.: £50,000. Dir.: M. V. Ely, Highlands, 104, Brighton-rd., Sutton, Surrey.

R. Manning (Builders), Ltd. (568011.) Regd. June 23, 1956. Valetta, Church-la., Springfield, Chelmsford. Nom. cap.: £1,000. Dir.: R. Manning.

Teasdale, Hutton & Tripp, Ltd. (567994.) Regd. June 23, 1956. 10, Cuckoo-hill, Pinner Green, Pinner, Middx. Bldrs. Nom. cap.: £3,000. Permt. dir.: J. F. Teasdale, 46, Tolcarne-dr., Pinner, Middx.

A. Hall & Son (Builders, Stafford), Ltd. (567997.) Regd. June 23, 1956. 31, Peel-ter., Stafford. Nom. cap.: £10,000. Dir.: A. Hall, The Bungalow, 147, Eccleshall-rd., Stafford.

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J. C. Kellett & Son, Ltd. (568005.) Regd. June 23, 1956. Bldrs. and contrs. Nom. cap.: £25,000. Dir.: G. C. Kellett, The Cottage, Desford, nr. Leicester.

H. Head & Son, Ltd. (568025.) Regd. June 25, 1956. 34, Union-st., Maidstone. Bldrs. Nom. cap.: £10,000. Dir.: L. Head, Porlock, Linton-rd., Loose, nr. Maidstone.

R. O. Griffin, Ltd. (568029.) Regd. June 25, 1956. The Lodge, Edlington, Horncastle, Lincs. Bldrs. Nom. cap.: £2,000. Dir.: R. O. Griffin.

West London Construction Co., Ltd. (568036.) Regd. June 25, 1956. Bldrs. Nom. cap.: £1,000. Dir.: T. W. Bates, St. Florian, Leatherhead-rd., Oxshott, Surrey.

Haywood Bros. (Builders), Ltd. (568039.) Regd. June 25, 1956. 15, Farm-st., Berkeley-sq., W1. Bldrs. Nom. cap.: £8,000. A. A. N. Haywood, 15, Farm-st., W1, signs as director.

G. P. Hall & Sons, Ltd. (568056.) Regd. June 26, 1956. 69, Harrogate-rd., E9. Bldrs. Nom. cap.: £5,000. Dir.: D. G. H. Hall, 326, Old Ford-rd., E3.

W. J. Welch & Co., Ltd. (568096.) Regd. June 27, 1956. 83/5, Cowcross-st., EC1. Bldrs. Nom. cap.: £500. Dir.: W. J. Welch, 23, Fairfield-rd., Croydon.

William Waite, Ltd. (568143.) Regd. June 27, 1956. 1, Pallion-rd., Sunderland. Bldrs. and contrs. Nom. cap.: £2,000. Dir.: W. L. Crawford, 29, Ridley-ter., Hendon, Sunderland.

H. Chapman & Sons (Builders), Ltd. (568175.) Regd. June 28, 1956. 42, Gt. Park-st., Wellingborough. Bldrs. and bldg. contrs. Nom. cap.: £3,000. Permt. dir.: H. Chapman, The Laurels, Hatton-st., Wellingborough.

Maxwell Houses, Ltd. (568213.) Regd. June 28, 1956. 451, Mitcham-rd., Croydon, Surrey. Bldrs. Nom. cap.: £5,000. Permt. dir.: V. C. E. Maxwell, 78, Huron-rd., SW17.

John Foote, Ltd. (568270.) Regd. June 29, 1956. West End, Bruton, Som. Bldrs. and contrs. Nom. cap.: £2,000. Permt. dir.: J. Foote, 97, High-st., Bruton, Som.

C. H. Beazer & Sons, Ltd. (568163.) Regd. June 28, 1956. Lymore Bldg. Yard, Oldfield Park, Bath, Som. Bldrs. and contrs. Nom. cap.: £10,000. Dir.: C. H. G. Beazer, Ivy Bank House, Entry Hill, Bath.

W. Lewis & Son (Wolverhampton), Ltd. (568308.) Regd. June 29, 1956. Bldrs. Nom. cap.: £1,000. Sub.: J. Sillitoe, 59, Bradford-st., Walsall.

Dutton Construction Co., Ltd. (568579.) Regd. July 5, 1956. 15, Kildare-rd., Swinton, Lancs. Bldrs. Nom. cap.: £1,000. Permt. dir.: J. K. Dutton.

Egham Builders, Ltd. (568580.) Regd. July 5, 1956. 104, High Holborn, WC1. Nom. cap.: £100. Dir.: R. M. Morris, 18, Shire-la., Chorleywood, Herts.

John Blower, Jnr. (Bldg. Contractor), Ltd. (568590.) Regd. July 5, 1956. 2a, Longshut-la. West, Stockport, Ches. Nom. cap.: £10,000. Dir.: J. Blower, 55, St. Michaels-ave., Bramhall.

J. P. McCarthy & Co., Ltd. (568591.) Regd. July 5, 1956. Public works contrs. and civil engrs. Nom. cap.: £5,000. Dir.: J. P. McCarthy, 132, Townsend-la., NW9.

Linney & McLaughlin, Ltd. (568545.) Regd. July 5, 1956. 93, High-st., Barnet, Herts. Bldrs. Nom. cap.: £2,000. Dir.: W. Linney, 51, Athenaeum-rd., N20.

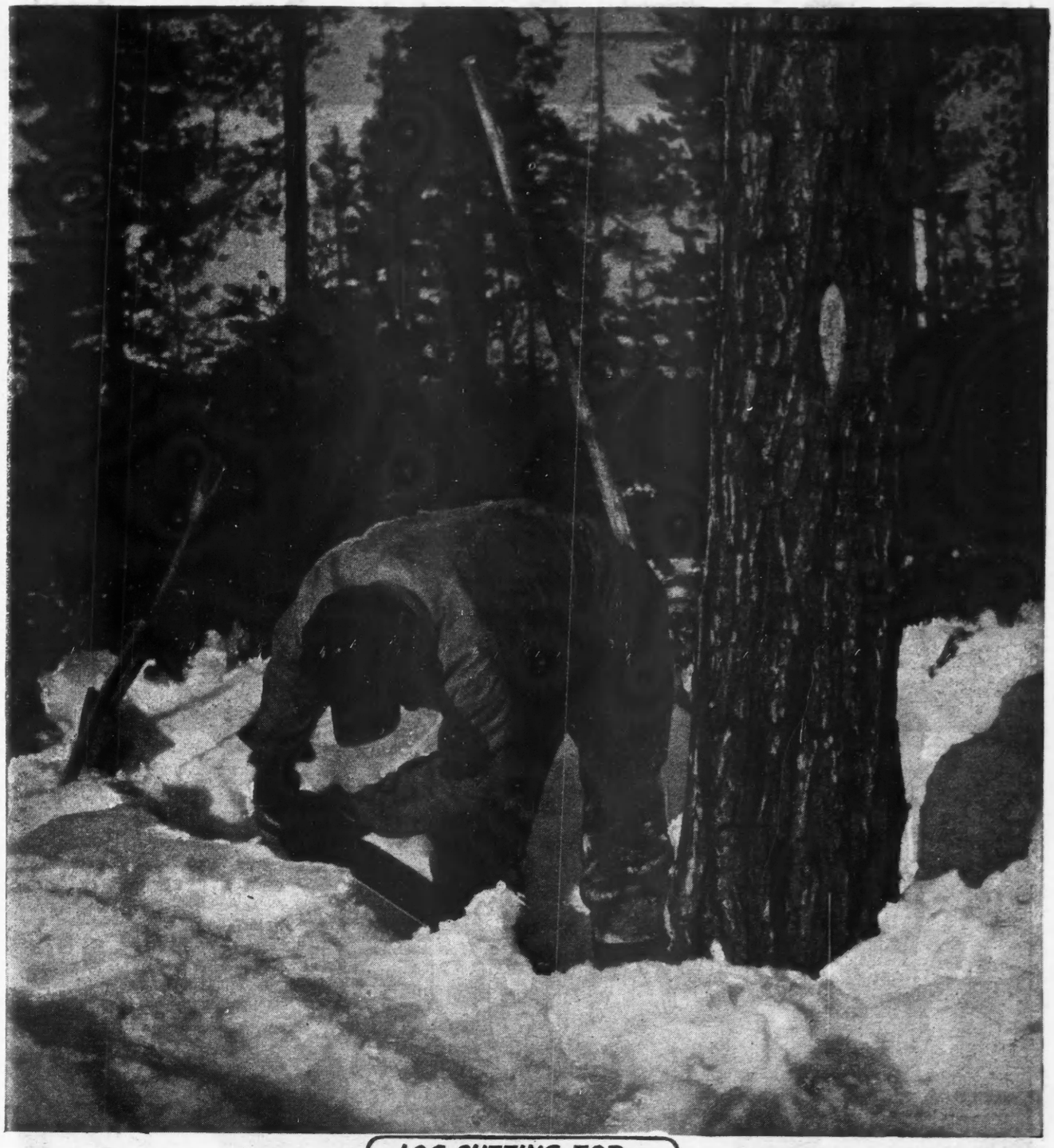
E. Barker & Son (Contractors), Ltd. (568532.) Regd. July 5, 1956. 11, Albert-sq., Manchester, 2. Bldrs. and contrs. Nom. cap.: £500. Dir.: L. A. Payne, 40, Kenilworth-rd., Sale, Ches.

W. H. Frearson, Ltd. (568489.) Regd. July 4, 1956. Littlemoor, Newbold, Chesterfield. Bldrs. Nom. cap.: £2,000. Dir.: W. H. Frearson, 503, Newbold-rd., Chesterfield.

A.B.C. Construction Co. (Luton), Ltd. (568491.) Regd. July 4, 1956. Bldrs. Nom. cap.: £5,000. Dir.: V. A. T. Simpson, 48, Carlton-cres., Luton.

Fairbourne Developments, Ltd. (568458.) Regd. July 4, 1956. The Estate Office, Fairbourne, Merioneth. Bldrs. Nom. cap.: £500 Dir.: Mrs. K. M. Ridley, The Shanty, Fairbourne, Merioneth.

Adam Turnbull, Ltd. (568400.) Regd. July 3, 1956. 19, Kings College-rd., Swiss Cottage, NW3. Bdlrs. Nom. cap.: £2,000. Dir.: A. Turnbull.



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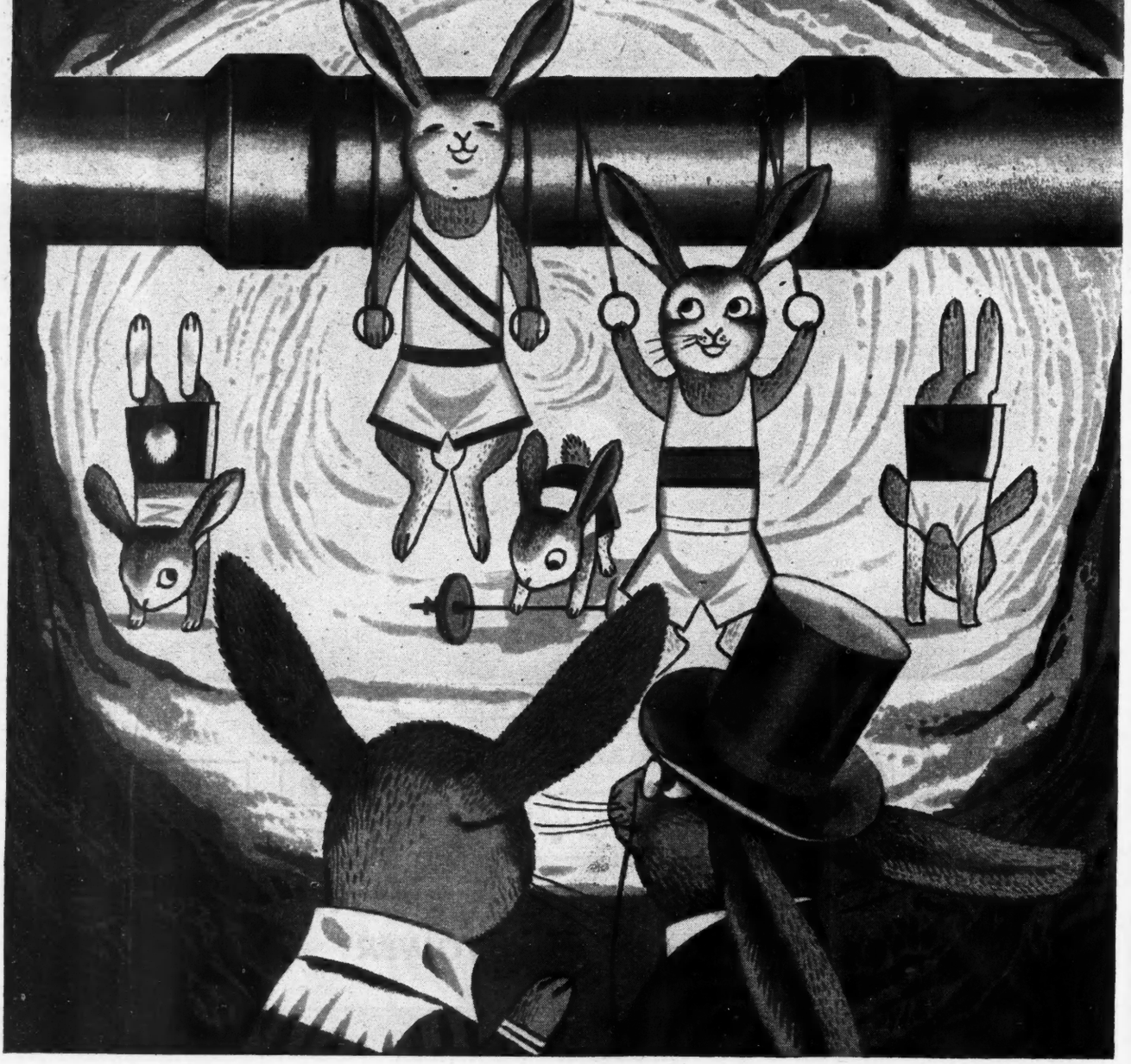

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Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list see previous issues. Those with an asterisk are advertised in this number. The dates at the heads of paragraphs are those for the submission of tenders; a dagger (†) denotes closing date for applications; the name and address at the end refer to the person from whom particulars may be obtained.

BUILDING

AUGUST 15.

*†**St. Helens CBC.**—Fire station, Parr Stocks-rd. M. Ward, Boro' & Water E.

AUGUST 16.

*†**Surrey CC.**—Extension to Horley County sec. sch. County A, Kingston.

*†**Worcs CC.**—Extensions at Stourport sec. mod. sch., Burlish-rd. Nicol, Nicol & Thomas (A), 111, New-st., Birmingham, 2. Dep. £2 2s.

AUGUST 17.

*†**Blackburn CB.**—New county sec. mod. sch. at Shadsworth. BE. Dep. £2 2s.

*†**Bristol City C.**—Bowls pavilion, etc., King's Head-la. recreation ground, Bishopsworth. J. Nelson Meredith (F), City A. Dep. £2 2s.

*†**East Sussex CC.**—12 pairs of police houses at Stonecroft-cl., two pairs of Inspectors' houses at St. Helen's Park and one pair houses at West Way. County A.

*†**Leamington Spa BC.**—35 dwellings at corner of Tachbrook-rd. and Kingsway. C. F. Redgrave & Ptnrs. (A&F), 6, The Quadrant, Coventry. Dep. £2 2s.

*†**Worcs. CC.**—Two-form entry junior sch. at Chawson estate, Droitwich. County A, 14, Castle-st., Worcester.

*†**Wrexham BC.**—Erection of Memorial Hall. Stephenson, Young & Ptnrs., No. 6, Bluecoat-chbrs., Liverpool 1, or BE.

AUGUST 20.

Abingdon RDC.—14 houses at Kennington (Poplar Grove) estate. Architect, 3, Bridge-st. Dep. £3.

AUGUST 22.

*†**Birmingham City C.**—Electrical installation, flatted factory, Dartmouth-st. Town Clerk.

AUGUST 24.

Doncaster CB.—Dwellings at Intake estate: 46, contract No. 591; 50, contract No. 592. Boro' A & Estates & Housing Surveyor, 15, South Parade. Dep. £1 1s. each contract.

*†**Southampton CBC.**—534 dwellings to include flats, houses, shops and old people's homes at various sites. Boro' E., Civic Centre.

AUGUST 27.

***East Riding CC.**—Extensions to Bridlington high sch. for girls. County A, Beverley. Dep. £2.

***Epsom and Ewell BC.**—Conveniences, Car Park No. 1, High-st., Epsom. N. Auty, Boro' E&S. Dep. £3 3s.

***Epsom and Ewell BC.**—Changing-rooms, Alexandra recreation ground, Epsom. N. Auty, Boro' E&S. Dep. £2 2s.

***Hereford City C.**—114 houses at Green-lanes estate. Building & Maintenance Officer, Town Hall. Dep. £3 3s.

Morley TC.—12 dwellings and four houses at Low Moor estate. BE, Town Hall. Dep. £2 2s.

AUGUST 28.

***Brighton CB.**—Block of 18 flats at Norwich-dr., Lower Bevendean estate. BS&E., 26/30, King's-rd. Dep. £2 2s.

AUGUST 29.

Clutton RDC.—Eight houses, with roads and sewers, etc., at Norton Malreward. Thomas & Morgan & Ptnrs., 23, Gelliwostad-rd., Pontypridd. Dep. £3 3s.

AUGUST 31

*†**Newcastle Regional Hospital Board.**—First major phase of construction of new West Cumberland Hospital. Regional Architect, Newcastle Regional Hospital Board, Walker Gate Hospital, Benfield-rd., Newcastle-on-Tyne 6.

SEPTEMBER 3

***East Riding CC.**—Additional kitchen, Agricultural Institute, Bishop Burton. County A, Beverley. Dep. £2.

***Peterlee Development Corporation.**—49 dwellings at Acre Rigg site. General Manager, Shotton Hall, Castle Eden, Co. Durham. Dep. £2 2s.

SEPTEMBER 4.

***Bletchley UDC.**—26 bungalows and 16 houses with garages, Water Eaton estate. E&S. Dep. £5.

SEPTEMBER 6.

Newcastle-on-Tyne City C.—120 flats and maisonettes in 10 five-storey point blocks in traditional construction at Tyne Quarry, Walker-rd., or, alternatively, in non-traditional forms of construction. City A, 18, Cloth Market.

SEPTEMBER 10.

***Herne Bay U.D.C.**—12 semi-detached houses at Fitzgerald-av. W. W. Smith, E&S.

***Luton BC.**—Shop fronts, block of four shops and flats, Yeovil-rd. Boro' A. Dep. £2 2s.

***West Riding CC.**—Caretaker's house at Darton boys' sec. sch. County A, Bishopgarth, Westfield-rd., Wakefield. Dep. £2 2s.

SEPTEMBER 12.

***Harrow BC.**—Supply and erection of fencing at Berridge housing estate, Edgware, BE&S. Dep. £2.

***Southend-on-Sea CB.**—195 dwellings at site No. 15, Blyth-ave., Shoeburyness. Boro' A, 30, Alexandra-st. Dep. £2.

SEPTEMBER 14

***Southport CB.**—Six shops with living accommodation and outbuildings at Radnor-dr. site. Boro' A, 99/105, Lord-st. Dep. £2 2s.

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NO DATE.

***Sheffield Regional Hospital Board.**—Applications invited from building contractors for inclusion in Board's list. Reg. Architect, Fulwood-hse., Old Fulwood-rd., Sheffield, 10.

***Wolverhampton CBC.**—Extension to town hall. Boro' E.

PAINTING, MATERIALS, ETC.

AUGUST 29.

***Potters Bar UDC.**—External redecoration of 42 houses at Mutton-la. E&S, Wyllyotts Manor, Darkes-la. Dep. £1 1s.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

AUGUST 15.

†**Walthamstow BC.**—Site clearance and construction of roads and sewers at site near Billericay, Essex. TC.

AUGUST 20.

Kingston-on-Thames BC.—Maintenance of highways. BS. Dep. £2 2s.

AUGUST 24.

Hatfield Development Corporation.—Roads, sewers and ancillary works at Woods-ave. (Eastern Spine-rd.). Chief E.

Hatfield Development Corporation.—Roads and sewers and ancillary works at Cavendish-way, parts 2 and 3. Chief E.

Stratford-on-Avon.—Advance preparation of (1) Industrial estate, Birmingham-rd.; (2) Welcombe-rd. BE&S. Dep. £2 2s.

AUGUST 28.

Birkenhead CB.—Surface water sewer at Saughall Massie-rd. BE. Dep. £2 2s.

AUGUST 30.

Hemel Hempstead Development Corp.—Roads and sewers off Maylands-ave. Chief E.

AUGUST 31.

East Dean RDC.—Laying of spun-iron main, etc., at Blaisdon. Lemon & Blizard, Castle-la., Southampton. Dep. £2 2s.

SEPTEMBER 1.

Carshalton UDC.—Relief soil sewer at Woodmansterne-rd. E&S.

Huddersfield CB.—Roads and sewers at Fernside estate. BE. Dep. £2 2s.

SEPTEMBER 7.

Cirencester RDC.—Construction of water main, etc., at Chum Valley area, stage 1. C, 5, Dyer-st. Dep. £3 3s.

SEPTEMBER 10.

Southampton BC.—Relief sewer at Merridale-rd. BE&S.

GENERAL BUILDING WORK (LONDON)

Bermondsey.—FLATS.—The Housing Com. has approved in principal plans for 88 flats in two twin-tower, eleven-storey block at Slippers-place. The Borough Engineer and Surveyor is Harold C. Coss, MIMunE, ARICS.

Hackney.—FLATS, HOUSES, GARAGES, SHOPS, ETC.—The MBC has approved a scheme for the building of 290 dwellings in three 15-storey blocks of flats, five five-storey blocks of maisonettes and flats, three two-storey blocks of houses, eight lock-up shops, 15 lock-up garages, a community hall, a communal laundry, tenants' workshop, porters store, estate office, etc., at Paragon-rd., E9, at an estimated cost of £887,000, and application has been made for loan sanction. The Borough Engineer and Surveyor is G. S. A. Downing, OBE, MICE, MIMechE, MIMunE.

Heston and Isleworth.—FLATS, RESTAURANT, GARAGES AND SHOPS.—A scheme for the building of 96 flats, linked by a restaurant, 28 garages and some small alcove shops, at a site bounded by Lampton-rd., Jersey-rd. and Great West-rd., Hounslow, has received TP approval from the Middlesex CC and now awaits the negotiation of a 99-year lease of the proposed site between the BC and the developers, Bell Houses, Ltd., Golden Court, Richmond, Surrey. The architects for the scheme are Leo. O. L.

Hannen & John H. Markham (F), 7, Victoria-st., SW1.

Willesden.—DWELLINGS AND SHOPS.—Bills of quantities have been completed for three blocks of eight dwellings at the site of "Frontenac," Donnington-rd., NW10, and tenders are to be invited. This is part of a scheme for a total of 78 dwellings at this site.—Tenders are under consideration for a ten-storey block of flats at 43-53, Shoot-up Hill and plans are in hand for a four-storey block of 56 flats and maisonettes at an adjoining site. Lower down the hill, adjoining Telephone House, a site has been acquired and preliminary sketch plans are in hand for some 120 housing units.—The South Kilburn Redevelopment Sub-Com. has approved outline plans for seven shops and six maisonettes at Chichester-rd., NW6. The Boro' Architect is T. N. I'anson (A).

(PROVINCIAL)

Accrington.—TC approved plans for extensions to machine shop at Back Ramsbottom-st., for Finch Watson, Ltd.

Ashton-under-Lyne.—BC approved: Erection of garage and workshop off Fleet-st., for Claremont Motors (Ashton), Ltd.; petrol station and motor showrooms at junction of Birch-st. and Manchester-rd., for Trustee of late Earl of Stamford; alterations and part reconstruction of beer bottling stores at Whittakers Mill, Queens-rd., for Whitbread and Co., Ltd.; office block at Portland-st., for MacDonald & Son (Portland Mill), Ltd.

Audenshaw.—UDC approved erection of two-storey administrative block at Shepley Works, for Autodrome (Engineers), Ltd.

Billingham-on-Tees.—S. W. Milburn & Partners, 9, Esplanade, Sunderland, prepared plans for church at Marsh House-av. H. A. Dawson (Estates), Ltd., Chapel-rd., Billingham, to erect houses and flats at South View, Billingham.

Birmingham.—Regional Hospital Board proposes additional nurses' accommodation at Rubery Hill and Hollymoor hospitals.

Blaydon.—New factory for the Churchill Gearing Co., Ltd. Plans by J. M. Angus, 3, Gallowgate, Newcastle-on-Tyne.

Boldon, Co. Durham.—Chisholm & Co. (Builders), Upper Reed-st., North Shields, are to erect houses at West Boldon. Principal Developments, Ltd., Haswell, Co. Durham, are to erect further houses at Beatrice-gdns.

Bolton.—Tillotson & Son, Ltd., propose extensions to premises at Mealhouse-la. Plans by Bradshaw Gass & Hope, 19, Silverwell-st., Bolton.

Bootle.—YMCA proposes adaptation of Christ Church Hall, Breeze Hill as new Youth Centre, £20,000 est.

Bradford.—EC to prepare working drawings for secondary school at Rhodes Way, at £240,000. Scherrer & Hicks, 19, Cavendish-sq., London, W1, architects.

Buxton.—BC approved: Secondary school at Palace-rd., for Rev. A. Baldwin, for Nottingham RC Diocesan Council; alterations at Hardwick-bldgs., Spring-gdns., for Pearl Assurance Co., Ltd.

Carlisle.—City Council's proposed architectural competition in connection with the erection of a new civic centre is expected to be advertised soon. TP Com. has approved plans by the Home Office, Architects' Dept., for erection of public house at junction of Edgehill-rd. and Brantwood-ave. J. Laing & Sons (Builders and Contractors), Dalston-rd., Carlisle, to erect 10 houses with garages in Skiddaw-rd.

Carlisle.—MofE has approved plan for additions to Carlisle gram. sch. for inclusion in 1957-58 building programme. City E: L. J. A. Stow, AMICE, MIMunE, 18, Fisher-st., Carlisle.

Cheltenham.—By-law and TP approval to George Wimpey & Co., Ltd., for 11 pairs of dwellings at Benhall Farm, Gloucester-rd.—Conditional TP approval to J. A. Pye, Ltd., for eight bungalows, 13 houses and 16 maisonettes at Beaufort Nurseries, London-rd./Rosehill-st. (outline application).

Chester.—Mrs. A. Shone proposes development of land at Rowton for housing purposes. Inquiry to be held.

Chesterfield.—BC approved erection of 22 flats in six blocks at Boythorpe and Whittington estates.

Colne Valley. — UDC approved plans for adaptations of Ritz Cinema as factory for M. Gledhill & Sons, Hi-Pylon Mills, Golcar.

Darlington.—Development Com. approved application to erect an arcade of 10 shops. Plans by J. Weatherall & Lamb, Darlington.—TC will start in first three months of next year with extensions to the Grammar School and St. Theresa's School.—Approval received for third instalment to the College of Further Education, at £182,300.

Dudley, Worcs.—EC propose extensions at Dudley gram. sch., £26,000 est. A: A. R. Young (F), 4, Parsons-st., Dudley.

Durham.—County A: G. R. Clayton (F), South-st., Durham, has prepared plans for alterations to High Spen county and mod. sch. and tenders are being obtained.

Durham.—CC Finance Committee approved £45,000 scheme for health centre at Peterlee. G. R. Clayton, South-st., Durham, County A.

Halifax.—TC seek loan £52,000 for erection of Ash Tree County Primary School.

Hartlepool.—Boro' E has prepared proposals for six shops at Milbank-cres., six shops near Vane-st., and corner shop.

Haslingden.—TC to invite tenders for 20 houses and eight flats at Broadway estate.—Approved layout for block of four shops and two-bedroomed flats at junction Helmshore-rd./Broadway.

Heywood.—TC approved plans for extension to carbon black store at Seymour-st. for Usher Walker, Ltd.—New office block at Adelaine-st. for James Berry, Ltd., Chapel-st.

Jarrow.—Ten houses to be built at Aberdeen-drive. £15,704 est. Boro' E: H. W. T. Perkins.

Leamington Spa.—BC approved erection of four-storey flats, houses and aged persons' dwellings at Kingsway Corner site.

Longbenton, Northumberland.—UDC to construct trunk sewer from Benton to Holystone. No contracts have been let, but it is expected that selected firms will be invited to submit prices soon. S: A. E. Sweetman, Council Offices, Forest Hall, Newcastle upon Tyne.

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Longendale.—UDC approved plans for petrol filling station at Hyde-rd., Mottram, for Shell-Mex & BP, Ltd.

Manchester.—Extensions to store at Froxmer-st., Gorton, for Follows & Bates, Ltd. Frank Bradley, 4, Wood-st., Bolton, architect; additional storey to warehouse and offices and installation of new lift at 5, Warwick-st., for J. Singleton, Ltd. Young & Perves, 12, St. Annes-sq., Manchester, architects; extensions to forge at Colliery-st., Clayton, for John Mountford & Co., Ltd. Plans by S. A. Benner, New Market-chbrs., Yorkshire-st., Rochdale.—TC approved plans for two-storey bottle store at Moss Side Brewery, Denmark-st., Moss Side, for Red Tower Lager Brewery, Ltd., Plans submitted by F. Westbrook, 49, Princess-st., Manchester.

Manchester.—Erection of additional classrooms, dining room and kitchen at Holy Innocents sch. at corner of Wilmslow-rd. and Lancaster-rd., Fallowfield, for P. C. Council. A: Leach, Rhodes & Walker (L), 90, Deansgate, Manchester.—Medical Research Council, 38, Old Queen-st., SW1, proposes erection of public health laboratory at 159/165, High-st., Chorlton-on-Medlock.—TC approval single-storey building at Dantzic-st. and Beesley-st. for Phillips Rubbers Manufacturing, Ltd. A: Cruickshank & Seward (F), 196, Deansgate, Manchester.

Mansfield.—BC approved: 17 bungalows at Southwell-rd. East, for Walter Lee, Ltd.; 192 houses and 192 garages, roads and sewers at Ives Farm estate, Westfield-la., for Butterley Co., Ltd.

Marple.—UDC approved erection of 22 houses at Marple-av.

Meriden.—RDC approved erection of 101 houses at Elmdon-la., Bicken Hill, for Morris & Jacombs, Ltd.

Middlesbrough.—Boro' E has prepared sketch plans for central works depot to cost from £150,000 to £200,000. Scheme provides for offices, stores, garages and workshops.

Middlesbrough.—J. G. L. Poulson, 171, Albert-rd., Middlesbrough, the architect for proposed College of Art, has also been appointed quantity surveyor for the work by the EC.

Newcastle-on-Tyne.—City Housing Com. planning blocks of multi-flats at Silver Lonnen; new primary school proposed at Montague Estate.

Northallerton.—North Riding EC has received approval for the building of 13 schools in next two years.

Northampton.—BC to carry out extensions to Central College of Further Education in 1957-58 programme, at £278,208; approved adaptation of Nos. 9-11, St. George's-av., for aged persons, at £19,200; approved sketch plans for erection of St. Gregory's RC sec. mod. sch.

Northumberland.—County Standing Joint Committee propose police houses at Seghill, Dinnington, Longhorsley, Pegswood, West Denton and Morpeth, at £30,581.—EC proposes including in its current building programme a £54,000 scheme for a primary school at Gosforth, and a £96,000 plan for a primary, infant and junior school at Gosforth. The MoE has approved the inclusion of the following in the EC's 1957-58 building programme: Haltwhistle County Modern school, £150,233; Duke's Grammar school, Alnwick (instalment of remodelling scheme), £25,000; and Longbenton RC Modern school, £148,000.—County Architect (C. C. Brown) has prepared sketch plans for proposed adaptation of Shortridge Hall, Warkworth, into a home for old people, at £25,000.

Ormskirk.—J. Bruce Smith, Burscough, proposes 200 houses, six shops and industrial premises at Burscough-rd. F. W. Nicholson, Liverpool, architect.

Penrith.—UDC Water E and S, F. Birkbeck, ARICS, has been instructed to prepare plans for construction of reservoir of 500,000 gallons at Beacon Edge. Council intends laying some 8½ miles of nine-inch water main.

Penrith.—UDC approved plans for restaurant and snack bar at Burrowgate, for Robert E. Reay, builder and contractor, Penrith.

Peterborough.—Planning Committee granted application by Cecil Richardson Properties, Ltd., of Erith, Kent, for the erection of 246 houses at Werrington Church estate.

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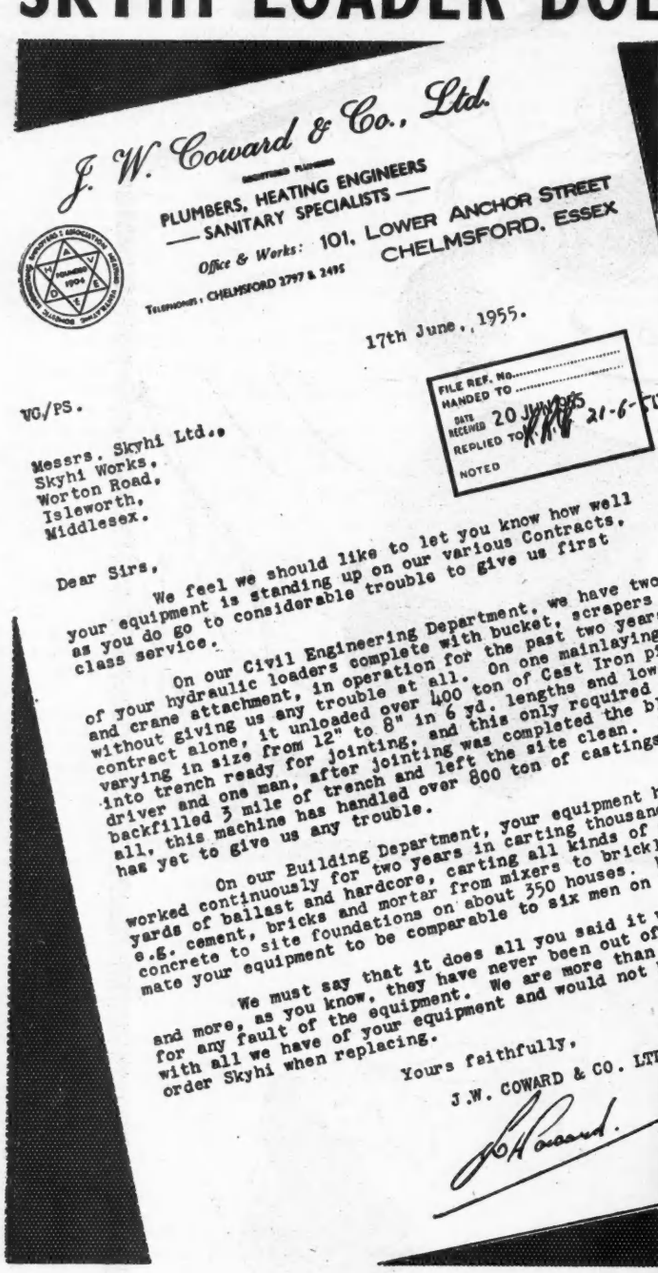

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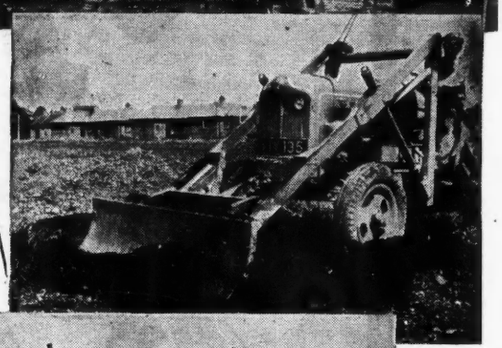

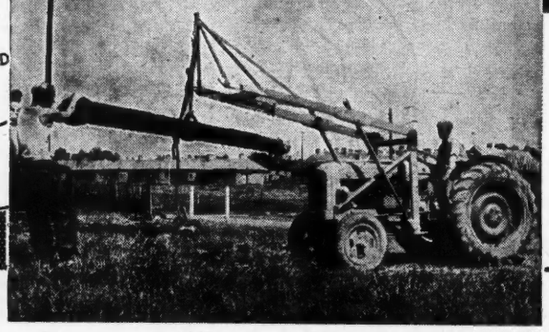

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Ponteland.—Twenty houses at Whalten, for Castle Ward RDC. G. E. Dimmack, S.

Preston.—TC is considering erection of new fish and retail market at Liverpool-st., with six-storey car park over.

Rainford, Lancs.—UDC proposes erection of further 22 houses at Junction-rd. site.

Rotherham.—EC approved revised plans for extensions at Brinsworth-st. Annexe of the Technical College.

Rugby.—TC approved plans for erection of warehouse and stores at rear of Clifton-rd. and South-st. for Rugby Co-operative Socy., Ltd.

Salford.—EC propose extensions at Technical High School, Leaf-sq. Architects, Cruickshank & Seward, 196, Deansgate, Manchester.

Scunthorpe.—Sheffield Regional Hospital Board approved scheme for development of War Memorial Hospital, at £750,000.

Sedgefield.—Newcastle Regional Hospital Board plans occupational therapy unit at Winterton Hospital. The first phase est. to cost £13,000. Board's Ch. A: P. H. Knighton, MBE (A).

Shildon.—Pithead baths proposed at Mid-dridge Draft Mine. Architect's Dept., Ashfield Towers, Gosforth, Northumberland.

Shrewsbury.—The Royal Normal College for the Blind propose extensions at Rowton Castle. Architects, Taylor & Young, 195, Oxford-rd., Manchester.

South Shields.—R. Collins, St. Hilda-st., prepared plans for factory at junction of Laygate-st. and West Holborn, for Rapide, Ltd., Keppel-st.—EC's 1957-58 building programme will include first instalment of proposed inter-parochial RC Secondary School, to plans by T. A. Page, Son & Hill, 75, King-st., South Shields.

Staffs.—PC Council of St. Lawrence Church, Gnosall, proposes repairs to church premises, £15,000 est.

Stockport.—EC propose new school to replace Greek-st. High School in 1957-58 programme.

Stockton-on-Tees.—G. P. Stainsby, 57, High-st., Stockton, prepared plans for 20 houses at Autumn-gr., for A. E. Gray & Sons, builders, Chapel-st., Thornaby; Shannon Contractors, Ltd., Marsh-rd., Middlesbrough, to erect 12 houses at Bishopton-rd. West, to plans by F. W. Turnbull, White House, Carlton; Norman Stonehouse, builder, Northcote-st., Stockton, to erect 12 houses at Sunnyside-gr., etc.; Shell-Mex & BP, Ltd., Coronet House, Leeds, to erect petrol filling stations at the junction of Haverton Hill-rd. and Fleet Bridge-rd.; M. Trotter, 134, High-st., Stockton, is architect for alterations to departmental stores at High-st., for M. Robinson & Sons; J. Bonar, builder, Cross-st., Norton, to erect houses near Junction-rd.

Sunderland.—G. H. Plemper, Ltd., St. Hilda's Works, Old Chester-rd., to build 18 bungalows at Red House-rd.

Sunderland.—TC propose 48 houses at St. Lawrence-st. and 139 houses at High South-wick. Plans by Boro' A.—TC has been asked by the Ministry of Agriculture to review their plans for an abattoir, meat market and cold stores, to cost about £200,000.

Warrington.—RDC approved plans for extensions to factory at Latchford Locks, Woolston, for British Aluminium Co., Ltd.

Whiston.—RDC approved layout for six shops, four flats and 22 houses at Hillside-ave., Knowsley, for Liverpool TC.—Reconstruction of Carters Arms, Glovers Brow, Kirkby, for Peter Walker (Warrington), Ltd.

Wigton.—RDC is considering erection of new Council offices and S is to prepare draft plans.

Witton Gilbert.—Twenty-four bungalows for retired publicans. Cost £30,000. North of England Licensed Victuallers' Association, C. W. Fryer, secretary, Sunderland.

Worcs.—CC approved sketch plans for erection of Redditch St. Stephens CoE Junior School, at £62,800; Pershore Infants' School, at £47,000; and Droitwich Junior School, at £58,800.

Workington.—PC Council of St. Mary's propose extensions to church and new hall. Plans by M. M. Phillips, 43, Oxford-st., Workington.

TENDERS

* Denotes *accepted.*
† Denotes *provisionally accepted.*
‡ Denotes *recommended for acceptance.*
§ Denotes *accepted subject to modification.*
¶ Denotes *accepted by H.M. Government Departments.*

Ayrshire.—Housing scheme at New Summnocks Cairnhill development site, the architect being Mr. J. Austen Bent, ARIBA, 15, Palmerston-pl., Westend, Edinburgh; excavation, brick, building and allied, etc., works, James & D. Andrews & Co., Ltd., 134, Bank-st., Irvine; plumbing, sanitary engineering and allied works, A. D. Mitchell & Sons, Ltd., Tannage Sanitary Works, Kirriemuir, Forfarshire; plaster, lathing and allied, etc., works, A. C. White & Co., Ltd., 95, Bath-st., Glasgow, WC2; joinery, carpentry, ironmongery and allied, etc., works, Cochrane & Armstrong, Ltd., Afton View Works, New Cumnock; glazing and allied, etc., works, The City Glass & Glazing Co., Ltd., 130, Denmark-st., Maryhill-rd., Possilpark, Glasgow; rooftiling, roughcasting and allied, etc., works, Macgifford, Logan & Co., Ltd., 128, Hope-st., Glasgow, WC2; electricity fittings installation and allied, etc., works, Hartley Electromotives, Ltd., Octupus Works, Monkmoor, Shrewsbury; painting, decorating and allied, etc., works, John Grant & Sons, Ltd., 825, Argyll-st., Anderston, Glasgow, WC3.

Bangor. — Erection of church at Penrhosgarnedd. *H. E. Williams & Sons, Seirol Yard, Bangor.

Berwick-upon-Tweed.—32 three-bedroom, 64 two-bedroom and 4 one-bedroom type houses at Spittal Hall housing estate, for BC. BS: J. Hermitage. *J. H. Pierce, Osborne-rd., Tweedmouth.

Birkenhead.—Changing block and music room at Birkenhead sch. for Governors. *Lloyd & Cross, Ltd., 68, Argyle-st., Birkenhead.

Bradford.—Two additional classrooms, hall, head teacher's room, and ancillary accommodation at Buttershaw Junior sch. for EC. *Alfred Robinson (Builders), Ltd., Woodbine Works, Idle, £12,203.

Brownhills.—91 houses and 32 aged-persons bungalows for UDC. *Gregory Housing, Ltd., Worthing, Sussex, £179,096.

Carlisle.—250 houses, Morton for City C. L. J. A. Stow, AMICE, MIMunE, City E&S. *J. Twinam, Ltd., Brigham, Cockermouth, £180,000 (150); *J. Laing & Son, Ltd., Carlisle, £107,000 (100).

Chesterfield.—52 houses and four garages at Pevensey estate, and 18 houses at Keswick-dr., Newbold estate for BC. *A. F. White, 198, Derby-rd., Chesterfield, £78,075 & £28,340.

Clackmannan.—Eight houses at 26/36, High-st. and Kirk Wynd. Mason and brick work. *R. Beatson & Son, High-st., Forthbank Yard, Alloa.

Derby.—195 houses and 45 bungalows, and 206 Unity Houses at Sunny Hill estate for BC. *Direct labour, £285,558 & £267,728; 220 houses at Breadsall estate. *Geo. Wimpey & Co., Ltd., London, £298,392.

Dumbarton.—Scheme of three and four apartment houses at Aitkenbar housing development site, the architect being Mr. William Wilson (F), Planning & Architectural Department, Municipal Offices. *Messrs. Blackburn (Dumbarton), Ltd., Levenbank, Jameston, Alexandria, Vale of Leven, Dunbarton.

Dundee.—Housing schemes at Fairfield and Arbroath housing development sites, the architect and quantity surveyor being respectively, Mr. Robert Dron (F), and Mr. James A. F. Morrison, FSI, Planning & Architectural Department, Municipal Buildings. *George Wimpey & Co., Ltd., Hammersmith-gr., London.

Eccles.—Warehouse and offices at Irwell-gr. for W. H. Evans (Wholesale Grocers), Ltd. *John Collier & Sons, Ltd., 1, Lynmouth-ave., Patricroft.

Havant and Waterloo.—Eight flats, Bell-cres., Purbrook for UDC. R. R. Hole, E&S. *Powell & Lillywhite, Ltd., Finchdean, Hants.

Hove.—County sec. sch., off Nevill-rd., for East Sussex CC. *William Willett, Ltd., Hove, £146,565.

Leamington Spa.—Six additional shops at Crown-way for BC. *Lewis & Watters, Ltd., Lime-ave., Leamington.

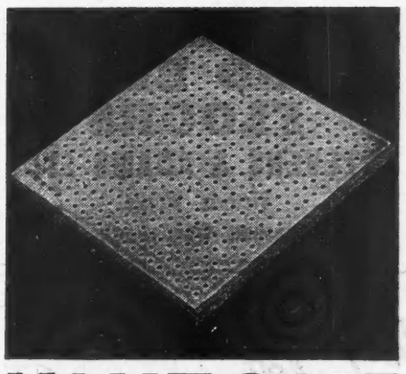
Leeds.—Dining rooms and kitchen at Leeds modern and Lawnswood High schools for EC. *Matthews & Sons (Contractors), Ltd., Railway-st., Leeds, £29,779.

Lichfield.—Secondary modern school at Borrowcop site for Staffs CC. *F. & E. Linford, Ltd., Park-rd., Cannock.

Liverpool.—Third phase of large extensions for University of Liverpool. *Wm. Moss & Sons, Ltd., Roscoe-st., Liverpool.

¶London (Admiralty).—Particulars of contracts over £1,000 in value:—*Hants*: Building work, Warings (Contractors), Ltd., London-rd., Hilsea, Portsmouth; Lining sheds, The Manchester Slate Co., Ltd., Cavendish House, 53, Cavendish-rd., London, S.W.12. *Fife*: Building work: James Colville, Gowanbrae, Touch, Dunfermline. *Northern Ireland*: Jetty repairs, McLaughlan & Harvey, Ltd., 16, Bishop-st., Londonderry; Building work, J. Kennedy & Co., Society-st., Coleraine. *Durham*: Reconstruction railway track, T. W. Ward, Ltd., Albion Works, Sheffield. *Warwicks*: Renewal of railway sidings, Grant, Lyon & Co., Ltd., 80a, Scotter-rd., Scunthorpe, Lincs.

London (British Railways).—Contracts placed by Eastern Region.—Thomas C. Stewart (Contractors), Ltd., 42, Museum-st., Ipswich, Suffolk—construction of new staff accommodation for Upper Yard and Down Carriage Sidings at Ipswich. J. Dixon (Doncaster), Ltd., Greenfield-la., Balby, Doncaster—construction of staff accommodation at Stairfoot. Kyle Stewart (Contractors), Ltd., 338, Kilburn High-rd., London, NW6—renewal of roof coverings over 10 o'clock road at King's Cross goods depot. Wright, Anderson & Co., Ltd., GPO Box No. 2, Gateshead, 8—supply, delivery and erection of structural steelwork forming portal framed building at Stratford light weight diesel train maintenance depot. W. & C. French. Ltd., Buckhurst Hill, Essex—provision of water and gas services and drainage at Temple Mill new marshalling yard. Walter Cowen, Ltd., Souldern-rd., London, W14—reglazing of roofs over platforms 13 to 18 at Liverpool-st. station. Wright, Anderson & Co., Ltd., GPO Box No. 2. Gateshead, 8—supply, delivery and erection of structural steelwork for portal framed building at Cambridge light weight diesel train maintenance depot. George A. Kenney & Sons, Ltd., Army Works, Burrell-rd., Ipswich—extension to parcels office and alterations to lavatories at Ipswich station. R. Ridd & Son (Contractors), Ltd., 153, Billet-la., Hornchurch, Essex—cleaning and painting of station buildings, signals, signal boxes, point rodding, linework, etc., at Harringay West and Hornsey stations, also Hornsey motive power depot on East Coast main line, etc. Holmspress Piles, Ltd., Barnsley-st., Hull—construction of foundation piles for diesel light weight train depot at Stratford.



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¶**London (War Dept.).**—Works contracts placed in week ended July 27:—

Berkshire: Roadwork, *O. J. Elliott & Co., Ltd., Bristol. *Cumberland:* Flood works, *Border Engineering Cntrs., Ltd., Carlisle. *Essex:* Miscellaneous, *A. W. P. (Builders), Ltd., London. *Hampshire:* Painting and decorating, *Fields, Ltd., Reading; heating, *C. H. Kempton & Co., Ltd., London; painting and decorating, *Arnold Sharrocks, Ltd., Ash, Aldershot. *Kent:* Building, *R. Corben & Son, Ltd., Maidstone. *Lincolnshire:* Painting and decorating, *C. J. Else & Co., Ltd., Lincoln. *London:* Miscellaneous, *Frank R. Freeman, Ltd., London. *Merioneth:* Painting, *T. E. Cundy & Son, Ltd., Leicester. *Northamptonshire:* Building, *Simcock & Usher, Ltd., Northampton. *Northumberland:* Building, *J. G. Green & Sons, Ltd., Morpeth. *Pembrokeshire:* Miscellaneous, *Hussey, Egan & Pickmere, Ltd., Pembroke. *Surrey:* Rifle range work, *Bryan Wattridge (Public Works), Ltd., Farnham. *Sussex:* Painting and decorating, *T. H. Kenyon & Sons, Ltd., London. *Yorkshire:* Water supply, *W. & G. Glossop, Ltd., York.

Manchester.—Following for Regional Hospital Board: alterations for new outpatients department at Chorley & District Hospital, *J. W. Lee, Ltd., Yarrow-rd., Sawmills, Chorley, £27,628; completion of twin operating theatres at Burnley General Hospital, *Howarth Bros. (Colne), Ltd., Colne, £24,451.

Middlesbrough.—Erection St. Pius Xth R.C. prim. sch. at Berwick Hills. Plans by T. A. Crawford, 80, Borough-rd., Middlesbrough. *R. H. Bailey & Son, Ltd., Denmark-st., Middlesbrough.

Newcastle-on-Tyne.—New workshops for Swan Hunter & Wigham Richardson, Ltd., at Neptune Shipyard. *Development & Construction Co., Ltd., London.

Newcastle-on-Tyne.—39 "Unity" flats at St. Anthony's, and 44 "Unity" flats at Longbenton estate for City Council. G. Kenyon, 18, Cloth Market, Newcastle, City A. *Adam R. Robertson (Builders), Ltd., East Park-av., Blyth.

Northampton.—49 small dwellings at Dallington-rd. site for BC. *Bransom & Jones, Ltd., 36/38, Milton-st., £58,028.

Oban.—Houses at Glencruthin-rd., Tweedle-st., and Soraba-rd., Angus A. Beaton (F), Master of Works Offices. *Blackburn (Dumbarton), Ltd., Levenbank, Jameston, Alexandria, Vale of Leven, Dunbartonshire (est. cost £33,230).

Penrith.—40 houses at Scaws estate for UDC. *John Kitchen, Penrith, £64,327.

Rochester.—Erection of 60 dwellings, for BC: *Peak Construction Co., Ltd., £87,000 (subject to Ministry approval).

Rugby.—Kitchen, dining room and dormitory block at Coton House for BTH Co., Ltd. *J. Parnall & Son, Ltd., Oliver-st., Rugby.

Sheffield.—Following for Regional Hospital Board: dormitory at Stretton Hall, Oadby, *Henry Herbert & Sons, 33, Millstone-la., Leicester, £12,218; extension to laundry at Manor Hospital, Derby, *Ford & Sons, Ltd., Derby, £19,357.

Shildon.—60 houses at Jubilee Fields estate, and roads and sewers for UDC. J. W. Paterson, S. *Direct labour.

South Shields.—106 houses at Whiteleas for TC. John Reid, BE. *William Leech (Builders), Ltd., St. James'-st., Newcastle-on-Tyne, £144,371.

Tutbury.—16 houses at Church-rd. site, Stretton for RDC. *Lewis Bros., Ltd., Wednesfield; 62 houses and bungalows at the Croft site. *H. J. Warners, Ltd., Mickleover, Derby.

Tynemouth.—29 houses at Marina-ave., North Shields for TC. D. M. O'Herlihy, BE, 16, Northumberland-sq., North Shields. *J. P. Neylon, Hollywell-ave., North Shields, £41,598.

Wallsend.—Offices for Clelands (Successors), Ltd. Plans by L. G. Mouchel & Partners, 9, Ellison-pl., Newcastle-on-Tyne. *James R. Rutherford & Sons, Minories Joinery Works, Jesmond, Newcastle-on-Tyne (work commenced).

Wolverhampton.—Extensions to foundry at Albion-st., Horseley Fields for John Hill & Sons (Ironfounders), Ltd. *Ford and Weston, Ltd., Osmaston-rd., Derby.

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OFFICIAL ANNOUNCEMENTS

COMPETITIONS · CONTRACTS · PUBLIC APPOINTMENTS

Rate: 30/- per inch, minimum ½-inch; each additional line, 2/-

PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12 o'clock NOON, TUESDAY, PRIOR TO ISSUE

CONTRACTS

BOROUGH OF HARROW.

SUPPLY AND ERECTION OF FENCING AT: BERRIDGE HOUSING ESTATE, EDGWARE.

TENDERS are invited from fencing contractors for the SUPPLY and ERECTION of chesnut pale, close-boarded and post and wire fences to approximately half the dwellings on the Corporation's Berridge Housing Estate, Edgware.

Plans indicating the siting of the fences it is proposed to replace are available for inspection at, and the Specification and Form of Tender may be obtained from, the office of the Borough Engineer and Surveyor, Council Offices, Stanmore, upon payment of a deposit of two pounds (£2), returnable where a bona-fide tender reaches the Corporation within the prescribed time.

Sealed tenders in plain envelopes, bearing no name or mark indicating the sender, but having attached the label provided, endorsed "Berridge Estate—Fencing" are to be forwarded so as to reach the undersigned not later than 10 a.m. on WEDNESDAY, 12th SEPTEMBER, 1956.

The Council does not bind itself to accept the lowest or any tender.

D. H. PRITCHARD,
Town Clerk.

PETERLEE DEVELOPMENT CORPORATION.

ACRE RIGG III DEVELOPMENT.

49 DWELLINGS SCHEME.

TENDERS are invited for the ERECTION of 49 DWELLINGS at the above site.

Contractors wishing to tender should apply to the undersigned for Bills of Quantities and Forms of Tender, enclosing a deposit of Two Guineas, which will be returned on receipt of a bona-fide Tender.

Drawings may be inspected at the office of the Corporation's Chief Architect.

Tenders, on the appropriate forms provided, should reach the undersigned not later than MONDAY, 3rd SEPTEMBER, 1956, in the endorsed envelope supplied.

The Corporation does not bind itself to accept the lowest or any Tender.

A. V. WILLIAMS,
General Manager.

Peterlee Development Corporation,
Shotton Hall,
Castle Eden,
Co. Durham.

COUNTY BOROUGH OF BRIGHTON.

TENDERS are invited for the ERECTION OF A BLOCK OF 18 FLATS, Norwich-drive, Lower Bevendean Estate. Bills of Quantities and Forms of Tender may be obtained from the Borough Surveyor, Engineer & Planning Officer, 26/30, King's-road, Brighton, on or after Tuesday, 7th August, 1956, on receipt of a returnable deposit of £2 2s. 0d.

Tenders are to be delivered to the Town Clerk in plain sealed envelopes not later than noon on TUESDAY, 28th AUGUST, 1956.

W. O. DODD,
Town Clerk.

COUNTY BOROUGH OF BLACKBURN.

NEW COUNTY MIXED SECONDARY MODERN SCHOOL FOR 510 PUPILS AT SHADSWORTH, BLACKBURN.

Contractors desiring to tender for building this school should apply to Borough Engineer, Town Hall, Blackburn, by 17th AUGUST, enclosing a deposit of £2 2s. 0d. which will be refunded on receipt of bona-fide tender. Bills of Quantities will be available about 14th AUGUST.

FRANK SQUIRES,
Town Clerk.

WREXHAM VICTORY COMMEMORATION FUND.

PROPOSED MEMORIAL HALL, WREXHAM.

The Management Committee invite Contractors to submit their names (with particulars of any comparative work undertaken by them) for consideration in connection with invitations to tender for their Memorial Hall scheme. It is intended that building operations should commence in the month of October, 1956. Replies to Messrs. Stephenson, Young and Partners, Architects and Planning Consultants, No. 6, Bluecoat-chambers, Liverpool, 1, or J. M. Davies, Esq., Borough Engineer, Chester-street, Wrexham, (from whom particulars can be obtained) by noon, 17th AUGUST, 1956.

PHILIP J. WALTERS,
Hon. Secretary.

Guildhall,
Wrexham.
3rd August, 1956.

WORCESTER - SHIRE COUNTY COUNCIL.

EDUCATION COMMITTEE.

TENDERS are invited for the ERECTION OF EXTENSIONS to the STOURPORT SECONDARY MODERN SCHOOL, in Burlish-road. The building is generally in traditional construction in two storeys, with steel frame and precast stone cladding.

Contractors wishing to tender should apply to the Architects, Messrs. Nicol, Nicol & Thomas, A.R.I.B.A., Chartered Architects, 111, New-street, Birmingham, 2, not later than the 16th AUGUST, 1956, and should enclose a deposit of £2 2s. 0d. which will be returned on receipt of a bona-fide tender. Plans are available for inspection at the Architects' office and also at the office of the County Architect, 14, Castle-street, Worcester.

J. C. BROOKE,
Deputy Director of Education.

County Education Office,
Castle-street,
Worcester.
31st July, 1956.

WORCESTER - SHIRE COUNTY COUNCIL.

TENDERS are invited for the ERECTION of a TWO-FORM ENTRY JUNIOR SCHOOL on the Chawson Estate, Droitwich.

Applications for Bills of Quantities accompanied by a deposit of £3 3s. which will be returned on receipt of a bona-fide tender, must be sent to L. C. LOMAS, F.R.I.B.A., County Architect, 14, Castle-street, Worcester, not later than 17th AUGUST, 1956. (M.69.)

COUNTY BOROUGH OF SOUTHPORT.

The Council invite TENDERS for the ERECTION of SIX SHOPS with LIVING ACCOMMODATION and OUTBUILDINGS on the RADNOR-DRIVE HOUSING SITE.

The Drawings and General Conditions of Contract may be inspected at, and the Bills of Quantities obtained from, the Borough Architect and Town Planning Officer's Department, 99-105, Lord-street, on and after Saturday, 18th August, on payment of Two Guineas, which sum will be refunded on receipt of a bona-fide Tender.

Tenders are to be delivered to the undersigned* by the 14th SEPTEMBER.

R. EDGAR PERRINS,
Town Clerk.

COUNTY BOROUGH OF WOLVERHAMPTON.

EXTENSION TO TOWN HALL.

The Public Works and Estates Committee propose to invite TENDERS for the ERECTION of an EXTENSION to the TOWN HALL.

The work comprises Demolitions, Alterations to existing Offices, and Erection of a New Four-Storey Building, each storey approximately 1,700 sq. ft. in area. The structure will be steel framed, glass and brick clad, and with precast concrete suspended floors.

Contractors who will carry out the work expeditiously and who are desirous of tendering should submit their names to the Borough Engineer, Town Hall, Wolverhampton, within ten days of the appearance of this notice.

From the names submitted, a panel of Contractors will be selected who will subsequently be provided with a Bill of Quantities.

A. G. DAWTRY,
Town Clerk.

TO BUILDERS AND CONTRACTORS.

Southampton C.B.C. invites tenders for the following:—

Contract	Estate	Type	No.
B.276	Thornhill	4-storey Flats	84
B.277	Thornhill	4-storey Flats	56
B.278	Thornhill	2-storey House	115
B.279	Thornhill	2-storey House	82
B.281	Thornhill	2-storey Flats	26
B.283	Thornhill	Doctor's House	1
B.276	Hollybrook	4-storey Flats	112
B.227	Earls-road	2-storey Flats	4
B.234	Cedar-road	2-storey Flats	4
B.222	Weston Farm	Old Peoples Homes	33
B.200	Bassett Green	Shops & Flats	7

Applications to the Borough Engineer, Civic Centre, Southampton, no later than 24th AUGUST.

SHEFFIELD REGIONAL HOSPITAL BOARD.

APPROVED LIST OF BUILDING CONTRACTORS.

Building Contractors are invited to apply for inclusion on the Board's list of building contractors in either or both of the following categories:—

(a) Works up to £10,000 in value.
(b) Works of £10,000 to £100,000 in value.

The Board's area covers South Yorkshire, Lincolnshire, Leicestershire, Nottinghamshire, and the greater part of Derbyshire and Rutland.

Applications should be addressed to the Regional Architect, Sheffield Regional Hospital Board, Fulwood House, Old Fulwood-road, Sheffield, 10.

BLETCHEY URBAN DISTRICT COUNCIL.

HOUSES AND BUNGALOWS—WATER EATON ESTATE.

TENDERS are invited for the ERECTION of 26 BUNGALOWS and 16 HOUSES, WITH GARAGES, on the Water Eaton Estate.

Plans may be seen, and Specifications, Bills of Quantities and Forms of Tender obtained from the undersigned on payment of a deposit of £5 (which will be returned on receipt of a bona-fide Tender).

The work will be divided into 5 parts and Tenders may be submitted for any number, or all, of the 5 parts.

Tenders in a plain sealed envelope endorsed "Scheme No. 34," Water Eaton Estate, should be delivered to Mr. R. L. Sherwood, Clerk of the Council, Council Offices, Bletchley, by noon on TUESDAY, 4th SEPTEMBER, 1956.

The Council does not bind itself to accept the lowest or any tender.

J. F. SMITHIE, M.I.Mun.E.,
Engineer & Surveyor.

Council Offices,
Bletchley.
25th July, 1956.

THE URBAN DISTRICT COUNCIL OF POTTERS BAR.

EXTERNAL REDECORATION OF 42 COUNCIL HOUSES.

TENDERS are invited for the EXTERNAL REDECORATION of 42 HOUSES in MUTTON-LANE, POTTERS BAR. Form of Tender and Specification may be obtained from the Engineer and Surveyor, Wyllyotts Manor, Darkes-lane, Potters Bar, on payment of a deposit of £1 1s., which will be refunded on receipt of a bona-fide Tender. Tenders are to be submitted to the Clerk of the Council in the plain envelopes provided by noon on WEDNESDAY, the 29th AUGUST, 1956.

W. A. STEVENS,
Clerk of the Council.

Council Offices,
Darkes-lane,
Potters Bar,
Middlesex.

BOROUGH OF ROYAL LEAMINGTON SPA.

KINGSWAY DEVELOPMENT.

35 DWELLINGS.

TO BUILDERS.

TENDERS are invited for the ERECTION OF 22 FLATS, 7 HOUSES AND 6 BUNGALOWS at the corner of Tachbrook-road and Kingsway. Applications for Bills of Quantities should be made to the Council's architects, Messrs. C. F. Redgrave and Partners, A./F.R.I.B.A., 6, The Quadrant, Coventry, together with a deposit of 2 guineas, not later than 17th AUGUST, 1956.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

TENDERS are invited for the ERECTION of CARETAKER'S HOUSE at DARTON BOYS' SECONDARY SCHOOL.

Application to tender must be addressed to the County Architect, Bishopgarth, Westfield-road, Wakefield.

Plan and Specification, together with Conditions of Contract and Form of Tender, will be available on and after the 20th August, 1956, on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender. Cheques must be made payable to the West Riding Treasurer, and crossed "& Co."

The Contract will be under the Provisions of the R.I.B.A. Conditions and Form of Agreement where Bills of Quantities do not form part of the Contract.

Sealed Tenders must be received by me at Room 3, County Hall, Wakefield, not later than 12 noon on the 10th SEPTEMBER, 1956.

BERNARD KENYON,
Clerk of the County Council.

County Hall,
Wakefield.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

PROPOSED ERECTION OF NO. 195 DWELLINGS. SITE NO. 15, BLYTHE-AVENUE, SHOEBURYNESS.

TENDERS are invited for the performance of works in connections with the proposed ERECTION OF NO. 195 DWELLINGS, and works incidental thereto, at SITE No. 15, BLYTH-AVENUE, SHOEBURYNESS, as follows:—

Six three-storey blocks of 45 flats.
Three three-storey blocks of 21 flats and maisonettes.
Twenty-eight two-storey blocks, comprising 129 one, two, three and four-bedroom houses and flats.

General Conditions may be inspected and copies of Forms of Tender and Bills of Quantities obtained on and after Tuesday, 14th August, 1956, on application to the Borough Architect, 30, Alexandra-street, on payment of a deposit of £2, which will be refunded on receipt of a bona-fide Tender or the return of all loaned documents.

Sealed Tenders, addressed to the undersigned and endorsed "Erection of 195 Dwellings, Site No. 15, Shoeburyness," are to be delivered to this office before 12 noon on WEDNESDAY, 12th SEPTEMBER, 1956.

No Tender will be received except in the special envelope provided, which shall not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender, and reserve the right to accept a Tender in whole or in part.

ARCHIBALD GLEN,
Town Clerk.

HERNE BAY URBAN DISTRICT COUNCIL.

TENDERS are invited for the ERECTION of SIX PAIRS OF SEMI-DETACHED HOUSES in Fitzgerald-avenue.

Specification, Form of Tender and Bills of Quantities may be obtained from, and General Conditions of Contract and Drawings may be seen at, the office of the Engineer and Surveyor, Mr. W. W. Smith, M.I.Mun.E., Council Offices, Herne Bay.

Tenders in the endorsed envelope provided must be returned to the undersigned not later than MONDAY, 10th SEPTEMBER, 1956.

The Council does not bind itself to accept the lowest or any tender.

G. A. BAGNALL,
Clerk of the Council.

Council Offices,
Herne Bay.

HOUSING OF POLICE, HOVE.

12 PAIRS OF HOUSES AT STONECROFT-CLOSE. TWO PAIRS OF INSPECTORS' HOUSES AT ST. HELEN'S PARK. ONE PAIR OF HOUSES AT WEST WAY.

The EAST SUSSEX COUNTY COUNCIL propose to invite TENDERS for the ERECTION of the ABOVE. Contractors wishing to tender for all or any of the above-named schemes should apply before 17th AUGUST, 1956, to the County Architect, County Hall, Lewes, at whose office a form and Conditions of Contract may be seen.

CITY OF HEREFORD.

GREEN LANES ESTATE.

ERECTION OF 114 THREE-BEDROOM HOUSES.

TENDERS are invited for the erection of 114 three-bedroom houses in Traditional construction at the above site. Plans and Specifications, together with Forms of Tender, may be obtained from the Building and Maintenance Officer, Town Hall, Hereford, on payment of a deposit of three guineas, returnable on submission of a bona-fide tender. Completed tenders must be returned in the envelope provided to the undersigned to arrive not later than 12 noon on the 27th AUGUST, 1956.

The Council does not bind itself to accept the lowest or any tender.

T. B. FELTHAM,
Town Clerk.

Town Hall,
Hereford.
10th August, 1956.

NEWCASTLE REGIONAL HOSPITAL BOARD.

SPECIAL AREA COMMITTEE FOR CUMBERLAND AND NORTH WESTMORLAND.

NEW WEST CUMBERLAND HOSPITAL.
FIRST MAJOR PHASE OF CONSTRUCTION.

The Board proposes, as the first major phase of construction of this new hospital, to build (a) a single-storey ward block for 60 geriactric patients, (b) a single-storey ward block and treatment centre for 16 psychiatric patients, (c) a 20-bed cubicle block for infectious diseases, (d) the first wing (55 bedrooms and ancillary accommodation) of the Nurses' Home, (e) a group of ten small flats for senior nursing staff, (f) three detached houses for married medical staff and (g) a boiler house, laundry, mortuary, and maintenance workshops block for the ultimate 440-bed hospital.

Tender documents are now being prepared under the direction of Messrs. C. B. Pearson & Son, F.R.I.B.A., Chartered Architects of Lancaster, and are expected to be available in late October.

Firms of good standing and possessing the experience, facilities and command of labour necessary for carrying out this work with due despatch are requested to submit their names not later than 31st AUGUST, 1956, to the Regional Architect, Newcastle Regional Hospital Board, Walker Gate Hospital, Benfield-road, Newcastle upon Tyne, 6. A limited number of firms may be invited to tender and the lowest or any tender will not necessarily be accepted. Only those contractors will be considered who have signed or are prepared to sign the undertaking not to indulge in the practices complained of by the Monopolies and Restrictive Practices Commission in its report to the Ministry of Works.

R. DOBBIN,
Secretary to the Board.

CITY OF BIRMINGHAM.

TO ELECTRICAL CONTRACTORS.

FLATTED FACTORY—DARTMOUTH-STREET.

The Public Works Committee propose to invite from selected firms tenders for the Electrical Installation at the above.

Firms wishing to be considered should submit their names to the Town Clerk in envelopes endorsed "Flatted Factory—Electrical sub-contract—Application."

Applications should be received at the office of the Town Clerk (Room No. 11), Council House, Birmingham, 1, not later than noon on WEDNESDAY, 22nd AUGUST, 1956.

The work consists of lighting, power and heating installations of considerable extent in the above project which is eight-storeys high, each of approximately 21,000 square feet.

The Committee will select firms from whom tenders will be invited in the immediate future, and the successful contractor will be expected to commence work immediately on receipt of the acceptance.

J. F. GREGG,
Town Clerk.

Council House,
Birmingham, 1.
3rd August, 1956.

EAST RIDING OF YORKSHIRE COUNTY COUNCIL.

TENDERS are invited for :—

(a) EXTENSIONS and INTERNAL ALTERATIONS at the BRIDLINGTON HIGH SCHOOL FOR GIRLS.
(b) ERECTION of ADDITIONAL KITCHEN at the AGRICULTURAL INSTITUTE, BISHOP BURTON.

Applications for Bills of Quantities should be made to the County Architect, County Hall, Beverley, and should be accompanied by a deposit of £2. Cheques to be made payable to the County Treasurer.

No Tender will be considered unless received by the undersigned not later than 4 p.m. on MONDAY, 27th AUGUST, 1956, in the case of (a), or MONDAY, 3rd SEPTEMBER, 1956, in the case of (b), in a plain sealed envelope supplied by the Council endorsed "Tender....." (as appropriate) and which shall not bear any name or mark indicating the sender.

THOMAS STEPHENSON,
Clerk of the Council.

BOROUGH OF EPSOM AND EWELL.

PROPOSED PUBLIC CONVENIENCES.

CAR PARK NO. 1, HIGH-STREET, EPSOM.

The Corporation invite tenders for the construction of the above building.

Copies of the drawings, specification and form of tender can be obtained from the office of Mr. Norman Auty, M.Inst. C.E., Borough Engineer and Surveyor, Town Hall, Epsom, during office hours upon payment of a deposit of £3 3s. 0d. Deposits will be returned to the contractors submitting a bona fide tender, not subsequently withdrawn.

Tenders must be delivered to me at the address mentioned below not later than noon on the 27th AUGUST, 1956 and no tender will be received and considered unless it is enclosed in the envelope provided endorsed "Tender for Public Conveniences." This envelope must not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any tender.

EDWARD MOORE,
Town Clerk.

Town Hall,
The Parade.
Epsom.
3rd August, 1956.

COUNTY BOROUGH OF ST. HELENS.

PROPOSED HEADQUARTERS: FIRE STATION,
PARR STOCKS-ROAD, ST. HELENS.

The Fire Services Committee will be in a position by mid-August to invite Tenders for the Erection of the above Fire Station.

The Buildings will consist of a HOSE TOWER, a REPAIR WORKSHOP BLOCK and a TWO-STOREY MAIN BLOCK consisting of a FIVE-BAY APPLIANCE ROOM, COVERED WASH, REPAIR SHOP, STORES, ADMINISTRATIVE WING, etc.

The Buildings will be of both steel-framed and load-bearing construction.

The estimated cost of the work is in the region of £100,000.

The Basement and Foundation Works have been carried out as a preliminary contract and are now complete.

Contractors wishing to tender for the above work should submit their names to the undersigned not later than 9 a.m. on the 15th AUGUST, 1956, together with evidence of their work on similar types of contracts.

From the names submitted a panel of Contractors will be chosen and will be subsequently provided with Bills of Quantities.

M. WARD, M.I.Mun.E.,
Borough and Water Engineer.

Town Hall.
St. Helens.

BOROUGH OF LUTON.

TENDERS are invited for SUPPLY & ERECTION of SHOP FRONTS, BLOCK of FOUR SHOPS & FLATS, YEOVIL-ROAD.

Documents from Borough Architect, Town Hall, Luton, on payment of £2 2s. deposit, returnable after receipt of a bona-fide Tender not subsequently withdrawn. Cheques payable "Luton Corporation." Tenders to Town Clerk, Town Hall, Luton, by noon on 10th SEPTEMBER, 1956.

BOROUGH OF EPSOM AND EWELL.

PROPOSED CHANGING ROOMS AT ALEXANDRA RECREATION GROUND, EPSOM.

The Corporation invite tenders for the construction of the above building.

Copies of the drawings, specification and form of tender can be obtained from the office of Mr. Norman Auty, M.Inst. C.E., Borough Engineer and Surveyor, Town Hall, Epsom, during office hours upon payment of a deposit of £2 2s. 0d. Deposits will be returned to the contractors submitting a bona-fide tender, not subsequently withdrawn.

Tenders must be delivered to me at the address mentioned below not later than noon on the 27th AUGUST, 1956 and no tender will be received and considered unless it is enclosed in the envelope provided endorsed "Tender for Changing Rooms." This envelope must not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any tender.

EDWARD MOORE,
Town Clerk.

Town Hall,
The Parade.
Epsom.
3rd August, 1956.

SURREY COUNTY COUNCIL.

TENDERS FOR PROPOSED EXTENSION TO HORLEY COUNTY SECONDARY SCHOOL.

The work consists of the ERECTION in Permanent Construction of THREE ADDITIONAL CLASSROOMS and ALTERATIONS in the existing building.

Contractors wishing to tender should apply to the County Architect, County Hall, Kingston-upon-Thames, by 16th AUGUST, 1956.

CITY AND COUNTY OF BRISTOL.

TO BUILDING CONTRACTORS.

Planning and Public Works Committee invite tenders for ERECTION OF BOWLS PAVILION, CHANGING ACCOMMODATION, PUBLIC CONVENIENCE and PARK SHELTER at King's Head-lane Recreation Ground, Bishopsworth.

Applications to tender to me by 17th AUGUST, enclosing two guineas deposit payable to Bristol Corporation, refundable on receipt of bona-fide tender. Lowest or any tender not necessarily accepted. J. NELSON MEREDITH, F.R.I.B.A., City Architect, The Council House, College-green, Bristol, 1.

PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12 o'clock NOON, TUESDAY, PRIOR TO ISSUE

PUBLIC APPOINTMENTS

A CLERK OF WORKS

(Electrical) is required by the War Department in the Didcot area.

The general conditions for the Grade III are:—

Ordinary National Certificate in electrical engineering or evidence of an equivalent standard of technical education; and five years apprenticeship or its equivalent with an engineering concern giving a good comprehensive training.

Completion of the course at the School of Military Engineering required for appointment to the Establishment for Engineer Services as a Clerk of Works (Electrical) constitutes an equivalent qualification.

Experience.

(i) After completing apprenticeship at least three years with an engineering firm giving good comprehensive experience, or
(ii) three years service as a supervisor of labour, chargehand or technical officer in the engineering industry.

Salary will be assessed according to age, qualifications and experience on the provincial range of £601 (at age 26) to £731 per annum. Posts are temporary but with long term possibilities.

Applications should be addressed to:—
C.R.E. South Midlands,
Bagley Croft,
Hinksey Hill,
Oxford.

COUNTY BOROUGH OF GREAT YARMOUTH.

SCHOOLS' ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a TEMPORARY ASSISTANT ARCHITECT, within Grade A.P.T. VI (£880—£1,080). The post is superannuable and subject to the National Conditions of Service.

Candidates must be Associate Members of the R.I.B.A. and should have experience in design, alterations and construction of schools. Previous knowledge of schools for partially deaf and blind children will be an advantage.

Housing accommodation will be made available if required, and the post is guaranteed for a minimum of two years.

Applications, stating age, qualifications, experience, with details of past and present appointments, together with the names of two referees, should reach the Schools' Architect, 22, Euston-road, Great Yarmouth, by 17th AUGUST, 1956.

D. G. FARROW,
Chief Education Officer.

22, Euston-road,
Great Yarmouth.

BOROUGH OF MANSFIELD.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for three vacancies in the Borough Engineer and Surveyor's Department. The salary will be in accordance with the National Joint Council's Scale according to qualifications and experience and the following conditions:—

1. N.J.C. Conditions of Service.
2. Local Government Superannuation Acts, for which purpose the selected candidate will be required to pass a medical examination.

Applications stating age, qualifications, present appointment, and salary, previous appointments and experience, together with the names and addresses of not more than three referees should be sent to the Borough Engineer and Surveyor, Carr Bank, Mansfield, and should be endorsed "Architectural Assistant." The closing date is 31st AUGUST, 1956.

A. C. SHEPHERD,
Town Clerk.

Carr Bank,
Mansfield.

CLERKS OF WORKS (Construction)

are required by the War Department at the following locations:—

1—Larkhill—apply C.R.E. Salisbury Plain, Fargo-road, Larkhill, Wilts.
1—Bulford—apply as above.
3—Tidworth—apply C.R.E. North Wilts, Prince Maurice Barracks, Devizes, Wilts.
1—Shrivenham—apply as above.
3—Didcot—apply C.R.E. South Midlands, Bagley Croft, Hinksey Hill, Oxford.
1—Bicester—apply as above.
1—Reading—apply as above.

Applicants must be British or of British parentage and possess the following qualifications:—

Ordinary National Certificate in Building or Intermediate City and Guilds Certificate in a craft or Associate Membership of Institute of Clerks of Works or First Class Certificate of Worshipful Company of Carpenters in Building Construction and Sanitary Science or equivalent or better qualifications; the Clerks of Works Diploma of the Association of Building Technicians or completion of the course at the School of Military Engineering required for appointment to the Establishment for Engineer Services as a Military Clerk of Works will be accepted as an equivalent qualification. In addition must have had the following experience (i) apprenticeship as craftsman with three years experience as Foreman of trade and experience as General Foreman or Clerk of Works, or (ii) three years full-time training (or five years evening) in a building school with three years experience as Foreman of trade and experience as General Foreman or Clerk of Works, or (iii) at least three years service in a builder's general office and experience in estimating, costing, management, followed by a further three years experience as Site Foreman or General Foreman. Salary will be assessed according to age, qualifications and experience on the provincial range of £601 (at age 26) to £731 per annum. Posts are temporary but with long term possibilities.

CITY AND ROYAL BURGH OF EDINBURGH.

TOWN PLANNING DEPARTMENT.

Applications are invited for the post of DRAUGHTSMAN on the salary scale £175—£520 per annum, placing according to age and experience.

Duties include the drawing, colouring and preparation of maps in connection with the Development Plan for the city.

Applications, together with the names of two referees, should be sent to the Town Planning Officer, City Chambers, Edinburgh, 1.

BOROUGH OF UXBRIDGE.

BOROUGH SURVEYOR'S DEPARTMENT.

APPOINTMENT OF CLERK OF WORKS.

The Council invite applications for the above appointment on the Unestablished Staff for the supervision of a number of contracts in their housing and redevelopment programme. Applicants should have received a good craft training and be competent to set out and supervise building works. The salary will be in accordance with the maximum of Grade A.P.T. I, viz., £640 per annum. Applications, stating age, whether married or single, particulars of present and previous employers and experience, and giving the names of two persons from whom references may be obtained, should be forwarded to Mr. H. E. G. Stripp, A.M.I.C.E., Borough Surveyor, Council Offices, 263, High-street, Uxbridge, Middlesex, by the 15th AUGUST.

JOHN POOLE,
Town Clerk.

HAYES AND HARLINGTON URBAN DISTRICT COUNCIL.

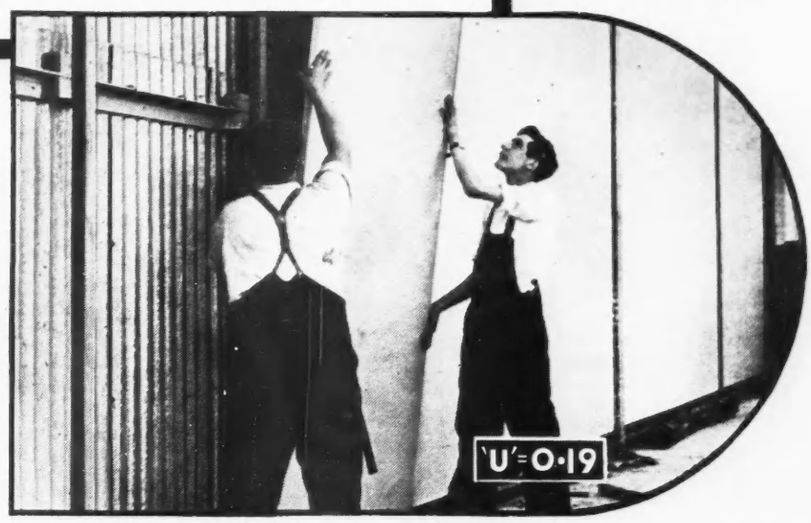
Applications are invited for:—

(a) ARCHITECTURAL ASSISTANTS (PERMANENT) (two vacancies) within Grade A.P.T. II, i.e., £595—£675 per annum. (b) SENIOR ARCHITECTURAL ASSISTANT (TEMPORARY) within Grade A.P.T. IV, i.e., £710—£885 per annum, plus London "Weighting" in each instance, 21-25 years £20 per annum, 26 years and over £30 per annum. Candidates for (a) must have passed the R.I.B.A. Inter. Exam., good experience of housing work with local authority. Housing accommodation will be made available for one of these two appointments if necessary. (b) must be a Registered Architect, have good general experience in design and construction in relation to municipal housing and other works and capable of supervising large building contracts. Housing accommodation will be made available if necessary. Five-day week. Further particulars and form of application obtainable from the undersigned, which when completed, must be returned as soon as possible.

GEORGE HOOPER,
Clerk and Solicitor.

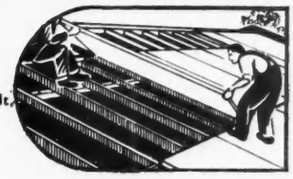
Town Hall,
Hayes,
Middlesex.

WALL-LININGS



ROOF-DECKING

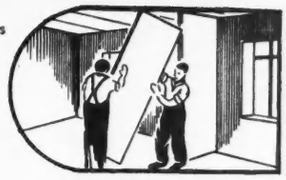
Under Sheet-metal (Traditional or Patent), Asbestos, Bituminous Felt, etc.



CEILINGS

PARTITIONING

- ★ Factory Screens
- ★ Divisions, etc.
- ★ Permanent or temporary
- ★ Glazed or unglazed



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—THE TWO-INCH THICK

BUILDING SLABS

—the low-cost dry-construction material, which combines great strength and rigidity with exceptionally good values of thermal insulation, sound absorption and fire resistance

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THOUSANDS OF TONS ARE USED ANNUALLY IN THE CONSTRUCTION OF FACTORIES, HOSPITALS, SCHOOLS, OFFICES, FLATS AND HOUSES, THROUGHOUT THE COUNTRY

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STOCK SIZES:
4 ft. wide x 8, 9, 10 & 12 ft. long

SPECIAL SIZES *(made to order)*:
Any width, of 4 ft. or less, and any length, greater or less than 12 ft.

NOW AVAILABLE IN

3 QUALITIES AND 3 FINISHES

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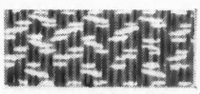
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Please send details of NEW range of STRAMIT Building Slabs:

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Address.....

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For the attention of.....*Status*.....

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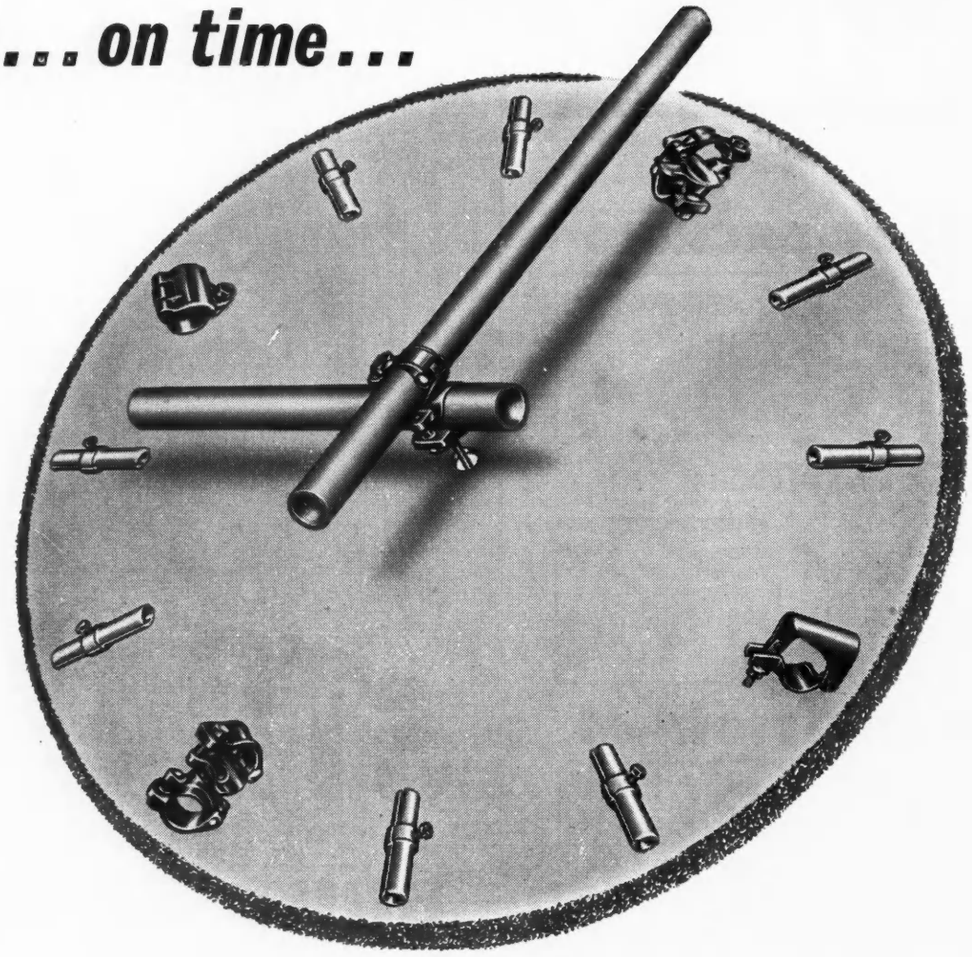

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.. to know that when you entrust your scaffolding erection to the Big Ben Contract Service you can depend upon it being ready "on the dot".

Or if you prefer to have your own...

.."Big Ben" Scaffolding with the famous time-saving steel fittings and steel or aluminium tube is available for purchase. Write for literature and prices.

STEEL SCAFFOLDING COMPANY LTD

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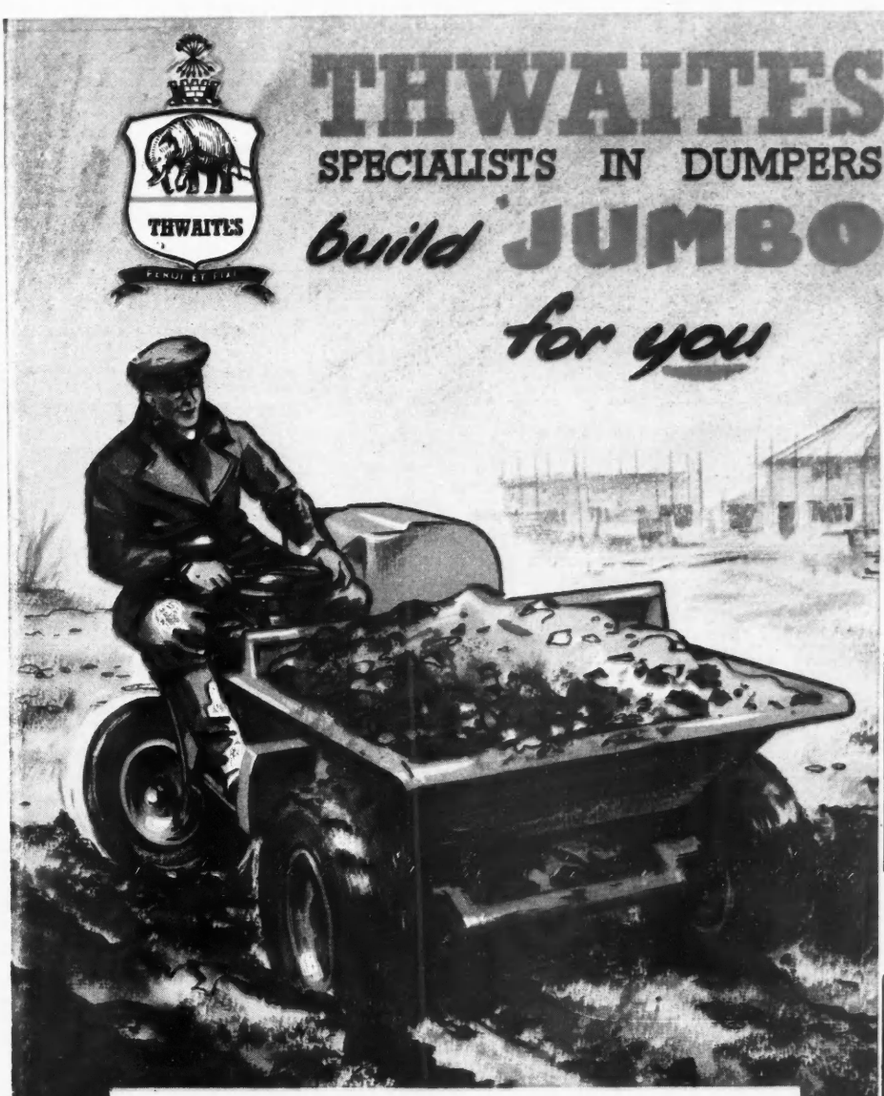
Warrington Tube Co. Ltd., Latchford, Warrington
Warrington 937

THWAITES

SPECIALISTS IN DUMPERS

build 'JUMBO' to work for you



Tough Jumbo takes its bigger Skip load (14 cu. ft.) from the mixer - note convenient loading height of lip (3 ft. from ground) . . . .

. . . . into the mud with its bigger load carried in perfect balance right over the axle - giving full traction by chain drive and dumper-designed, change-on-the-move gearbox . . . .

. . . . Jumbo got there quicker, with no spills of the bigger load, thanks to its 100% stability and manoeuvrability. This can mean a real saving of time and money - each working day.

Let us **prove** that only JUMBO is good enough to work for you: Specialised breeding gives stamina & stability and inbred virtues like - special dumper gearbox - bigger skiploads (muck 18 concrete 14 cu. ft.) - chain drive - full traction in all conditions gained by scientific weight distribution. Jumbo is just one of a range that are good for every job of fetching & carrying on the site - dumpers that do twice the job and pay a handsome dividend on every day's work - all this and SERVICE - SERVICE - SERVICE - on **your** doorstep . . . at the drop of a hat!

SALES AND AFTER SALES SERVICE AT

Whole of Scotland.
Thos. W Ward Ltd.
18-24, Fore Street, Scotstoun,
GLASGOW, W.4.
Telephone: Scotstoun 8083/4/5.

Cumberland, Westmorland, Northumberland, Durham.
F. Gibson & Co. (Newcastle) Ltd.,
Haddricks Mill Road,
South Gosforth,
NEWCASTLE-ON-TYNE, 3.
Telephone: Newcastle 58151 (5 lines)

Lancashire and Cheshire.
A. Gunn & Co. Ltd.,
Bold Street Works,
ALTRINCHAM, Cheshire.
Telephone: Altrincham 2747.

North, South, East and West Riding of Yorkshire, Nottinghamshire, and parts of Lincolnshire.
Chippindale (Engineers) Ltd.,
46, Barrack Street,
LEEDS, 7.
Telephone: Leeds 43064.

Parts of Northamptonshire, Rutlandshire and South Lincolnshire.
Jackson's (Loughborough) Ltd.,
St. Crispin's Works,
Cradock Street,
LOUGHBOROUGH.
Telephone: Loughborough 3781.

Moss (Cambridge) Ltd.,
146, Hills Road,
CAMBRIDGE.
Telephone: Cambridge 57210.

Essex and Southern part of Suffolk.
E. Doe & Sons, Ltd.,
Ulting,
MALDON, Essex.
Telephone: Hatfield Peverel 315.

Surrey, Sussex and Kent.
Witlor Ltd.,
107-109, Lancaster Street,
BIRMINGHAM, 4.
Telephone: Aston 2065/6/7 & 2021

Staffordshire, Worcestershire, Warwickshire, part of Leicestershire, part of Northamptonshire.
Neale-Wright & Co. Ltd.,
Refuge Assurance Buildings,
The Parade, LEAMINGTON SPA.
Telephone: Leamington Spa 824.

Buckinghamshire, Hertfordshire, North Middlesex.
Lewis & Lewis Ltd.,
School Road, Victoria Road,
North Acton, LONDON, N.W.10.
Telephone: London Elgar 7547.

Berkshire, Oxfordshire, parts of Buckinghamshire.
Oxford Plant Ltd.,
67-69, St. Aldates, OXFORD.
Telephone: 48094.

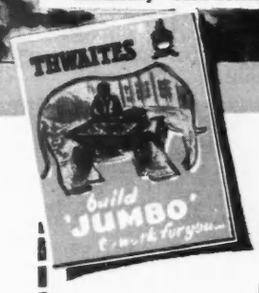
Gloucestershire, Wiltshire, Hampshire, Somerset, Devon, Cornwall, Dorset.
Bristol Plant Hire Ltd.,
Bath Road,
BRISTOL, 4.
Telephone: Bristol 77468.

South Wales: Pembrokeshire, Cardiganshire, Carmarthenshire, Brecknock, Glamorganshire, Monmouthshire.
Bristol Plant Hire Ltd.,
Swansea Depot: Pipe House Wharf,
SWANSEA.
Telephone: Swansea 2818.

Newport Depot: Hornby House,
Pugsley Street,
NEWPORT, Mon.
Telephone: Newport 66705.

Ulster.
Strangford, Ltd.,
Dunmurry,
BELFAST.
Telephone: Dunmurry 2012.

Eire.
Strangford, Ltd.,
3, Lincoln Place,
DUBLIN.
Telephone: Dublin 66641.



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ADDRESS .....

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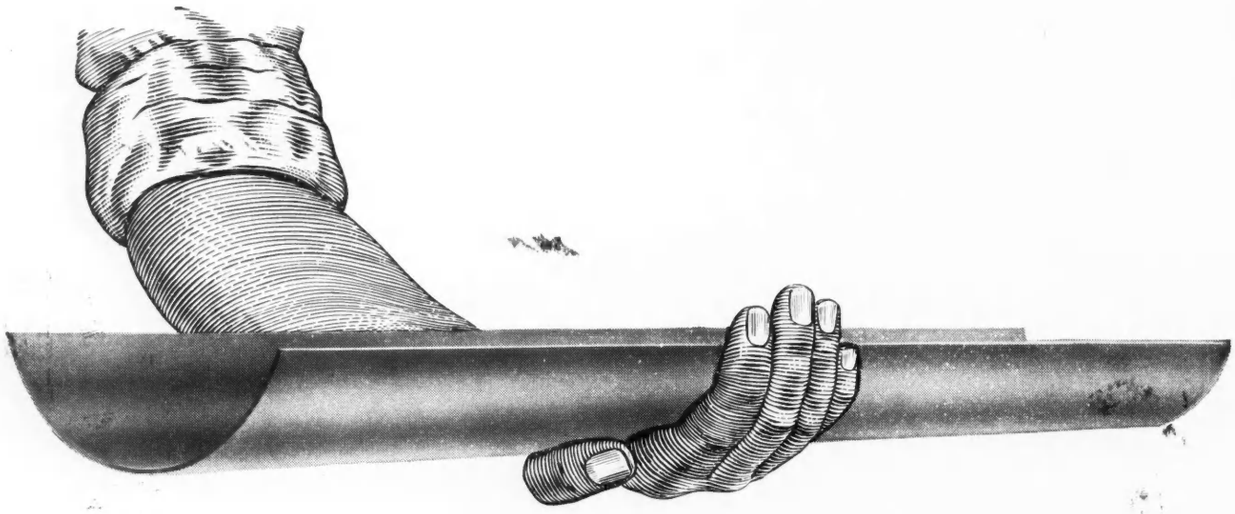
THE THWAITES AGRICULTURAL ENGINEERING CO. LTD.
Welsh Road Works · Industrial Division · Cubbington · Leamington Spa.
Telephone: LEAMINGTON SPA 3089/90.



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Birmid Rain-Water Goods, with their exceptional lightness, reduce time taken for erection and keep handling-charges down to the minimum. And yet they are not fragile or easily damaged, so that breakages in transit or on site are almost unknown. Birmid Aluminium Alloy Rain-Water Goods are precision made of the finest quality materials and workmanship, and designed for lasting service. Their use ensures accurate, safe fitting and no deterioration even in the worst winter! For all-round economy—materials, labour, time—BIRMID is the practical choice.

BIRMID RAINWATER GOODS

BIRMID WORKS · SMETHWICK 40 · STAFFS

HERIOT-WATT COLLEGE, EDINBURGH.

BUILDING DEPARTMENT.

Applications are invited from British Subjects for a JUNIOR LECTURESHIP in the Building Department, to take up duty as early as possible. Candidates should have as minimum qualifications the Higher National Certificate in Building and appropriate industrial experience. Some previous teaching experience is desirable.

The salary scale (interim) is £640 × £35—£780 × £40—£900, plus 7 per cent., on which the successful candidate may be placed according to qualifications and experience.

Further particulars and application form, which must be returned not later than 31st AUGUST, may be obtained from the College.

HUGH B. NISBET,
Principal.

CITY OF NOTTINGHAM.

HOUSING ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment with N.J.C. service conditions:—

ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade III-IV (£640-£885).

Applications stating age, qualifications, experience, present appointment and naming two referees should be sent to the City Housing Architect, The Guildhall, Nottingham, by the 14th AUGUST, 1956.

T. J. OWEN,
Town Clerk.

The Guildhall,
Nottingham.

MIDDLESBROUGH EDUCATION COMMITTEE.

APPOINTMENT OF ARCHITECTURAL STAFF.

Under a review of establishment recently approved by the Authority, the following vacancies are open in the office of the Education Architect (K. J. Caton, A.R.I.B.A.).

Appointments will be made within the grades as indicated subject to qualifications and experience.

(a) ONE PRINCIPAL ASSISTANT, ARCHITECT, A.P.T. Grade VI, £975—£1,080 (responsibilities under the Chief Assistant Architect).

(b) TWO SENIOR ASSISTANT ARCHITECTS, A.P.T. Grade V, £795—£970.

(c) TWO ASSISTANT ARCHITECTS, A.P.T. Special Grade to Grade IV, £690—£840—£885.

Candidates appointed under posts (c), who must have passed the Final Examination, Parts I and II, would be considered for an accelerated incremental rise on attaining Associate Membership of the R.I.B.A.

Housing accommodation is available for the successful candidates, if required.

Application forms and particulars may be obtained from the Director of Education, Education Offices, Woodlands-road, Middlesbrough, to whom completed forms should be returned not later than THURSDAY, 30th AUGUST, 1956.

METROPOLITAN BOROUGH OF BATTERSEA.

APPOINTMENT OF TWO ASSISTANT ARCHITECTS, A.P.T. V (£795 x £35 TO £970 PER ANNUM, PLUS LONDON WEIGHTING).

Applications are invited for the above-mentioned permanent appointments. Applicants should be Associates of the R.I.B.A. and have had several years' office experience. Successful applicants will be engaged on a large programme of new construction and redevelopment.

Application forms from the Borough Engineer and Surveyor, Town Hall, S.W.11. Closing date 20th AUGUST.

CARDIGANSHIRE COUNTY COUNCIL.

Applications are invited for the post of PRINCIPAL ASSISTANT ARCHITECT (A.P.T. Grade VI—£880 x £40-£1,080) in the County Architect's Department, County Hall, Aberayron.

Applicants should be Members of the R.I.B.A. with good experience in the design and construction of modern buildings.

The successful person will be in charge of the Drawing Office and will have general responsibility for the Department in the absence of the County Architect and his deputy.

Forms of application and further details obtainable from the County Architect.

Applications to be returned to the undersigned by not later than 20th AUGUST, 1956.

J. E. R. CARSON,
Clerk of the
Cardiganshire County Council.

Swyddfa'r Sir,
Marine Terrace,
Aberystwyth,
Cards.

COUNTY BOROUGH OF SWANSEA.

BOROUGH ARCHITECT'S (CENTRAL WORKS) DEPARTMENT.

APPOINTMENTS—
(a) TEMPORARY SITE MEASURING ASSISTANT.
(b) ASSISTANT ESTIMATOR (PERMANENT).

(a) Applications are invited for the appointment of a TEMPORARY SITE MEASURING ASSISTANT. Salary Grade M.G.V. (£560—£620) per annum. Preference given to candidates with experience in preparing Bonus Targets for new Housing Schemes, and must be conversant with Bills of Quantities, Drawings and measured work.

(b) Appointment ASSISTANT ESTIMATOR (Permanent). Salary Grade A.P.T. III (£640—£765).

Applicants should possess considerable experience in the pricing of Bills of Quantities, Bonus, measuring and valuing of work in progress, preparation of estimates from plans and specifications, and a knowledge of contract procedure.

Applicants must be under 45 years of age unless in Local Government Service, and will be subject to the provisions of the Local Government Superannuation Act, and the appointment may be terminated by one month's notice.

Forms of application may be obtained from the Borough Architect, Mr. H. T. Wykes, F.R.I.B.A., The Guildhall, Swansea, and are to be returned with the names of two referees, to the undersigned not later than MONDAY, the 20th AUGUST, 1956. Envelopes to be endorsed "Central Works Estimator" or "Site Measuring Assistant," as case may be.

T. B. BOWEN,
Town Clerk.

Guildhall,
Swansea.
30th July, 1956.

BOROUGH OF UXBRIDGE.

ASSISTANT ARCHITECT.

Applications are invited for the appointment of an ASSISTANT ARCHITECT on the staff of the Borough Surveyor and Architect at a salary within A.P.T. Grades II and IV viz. £625 to £915 per annum including London Weighting at age 26 or over. The commencing salary will be dependent on qualifications and experience. Applicants should have had a good architectural training and experience. The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts and the passing of a medical examination. Applications stating age, marital state, present and previous appointments, qualifications and experience and giving the names and addresses of three referees, should be forwarded to Harold E. G. Stripp, F.R.I.C.S., M.Inst.M.A., Borough Surveyor and Architect, 263, High-street, Uxbridge, not later than 15th AUGUST, next. HOUSING ACCOMMODATION WILL BE MADE AVAILABLE IF REQUIRED. Candidates are required to disclose in writing whether to their knowledge they are related to any member or senior officer of the Council.

JOHN POOLE,
Town Clerk.

NORTHERN IRELAND HOUSING TRUST.

SENIOR ASSISTANT ARCHITECT.

The Trust invites applications for the post of SENIOR ASSISTANT ARCHITECT on the salary scale £960 x £30-£1,050 x £10-£1,060.

Candidates must be Associate Members of the Royal Institute of British Architects and should have considerable experience.

Preference will be given to ex-service candidates.

The person appointed will be required to participate in a contributory superannuation scheme which allows for the reciprocal transfer of benefits in Local Government Schemes in suitable cases.

Assistance in obtaining housing accommodation may be given in suitable circumstances to the successful candidate.

Please apply not later than 25th AUGUST, 1956, giving full details of age, education, qualifications and experience, including present post and salary, to the General Manager, NORTHERN IRELAND HOUSING TRUST, 12, Hope-street, Belfast.

Please mark envelope 33/55.

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies exist on the Quantities Division for QUANTITY SURVEYORS and ASSISTANTS for preparation of approximate estimates; valuations for payments on account, and site measuring and preparation and settlement of final accounts. Also JUNIOR ASSISTANTS required for working-up.

Commencing salaries up to £987 according to experience and qualifications.

Particulars and application forms obtainable from The Architect (AR/EK/Q/3.), County Hall, S.E.1. (988.)

BOROUGH OF ECCLES.

BUILDING INSPECTOR.

Applications are invited for the above appointment from persons suitably qualified. Salary in accordance with Grade A.P.T. I of the National Scales (£530-£610 per annum).

Applicants must have a thorough knowledge of building construction, building materials, administration of building byelaws, testing of drains and inspection of properties.

The appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Acts.

Applications, stating age, qualifications and experience, together with the names and addresses of two referees, must reach the undersigned not later than 10 a.m. on SATURDAY, the 25th AUGUST, 1956.

Canvassing either directly or indirectly will be a disqualification and candidates must disclose whether to their knowledge they are related to any member of the Council, or to the holder of any senior office under the Council.

NORMAN MITCHELL,
Town Clerk.

Town Hall,
Eccles.
30th July, 1956.

BOROUGH OF EALING.—

TOWN PLANNING ASSISTANT, A.P.T. III (£640—£765 per annum, plus London weighting). Full particulars and application form from Borough Surveyor, Town Hall, Ealing, W.5. Closing date 20th AUGUST, 1956.

E. J. COPE-BROWN,
Town Clerk.

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies exist for ARCHITECT/PLANNERS (salaries up to £817). Tasks include three-dimensional planning within London's eight major Comprehensive Development Areas (including Stepney/Poplar, the South Bank, and Elephant and Castle) and other Redevelopment Areas.

The work includes the preparation of comprehensive layouts covering all the important areas of new public and private development throughout the County, and covers the whole field of planning technique.

Particulars and application form from Architect (AR/EK/ATP/3), County Hall, S.E.1. (907)

DURHAM COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ASSISTANT ARCHITECTS.

In connection with their proposal to erect new County Offices, the Council require a QUALIFIED ARCHITECT to prepare drawings and supervise the erection of the building. The person appointed will be in charge of a small team who, together, will be responsible to the County Architect. Candidates should have a flair for design and must have had experience in the design and construction of multi-storey buildings. Salary £1,175 × £55—£1,405.

Applications are also invited from QUALIFIED ARCHITECTS for appointment on salary scales A.P.T. V (£795 × £35—£970) and A.P.T. VI (£880 × £40—£1,080).

All appointments are subject to medical examinations for the purposes of the Local Government Superannuation Acts, the Council's regulations and the National Joint Council's Scheme for the time being governing payment of salary during sickness, annual leave and other conditions of service.

Applications, including the names and addresses of two persons to whom reference may be made, must reach the County Architect, South-street, Durham, by 25th AUGUST, 1956.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.
27th July, 1956.

SOUTH-EAST METROPOLITAN REGIONAL HOSPITAL BOARD.

Applications are invited for the following posts:—

(a) ARCHITECTURAL ASSISTANT. Salary according to age and experience, £480 (at age 21)—£670 per annum, plus London Weighting. Applicants must have passed the Intermediate Examination of the R.I.B.A. or equivalent.

(b) RECORDS DRAUGHTSMAN (Architectural). Salary according to age. £390 (at age 21)—£580, plus London Weighting.

The above salaries are now under review.

Above posts superannuable.

Applications, stating age, previous experience, etc., with two referees, to Secretary, 11, Portland-place, London, W.1, by 18th AUGUST, 1956.

GOVERNMENT OF QATAR—PERSIAN GULF.

STATE ENGINEER'S OFFICE.

DESIGN ENGINEER.

Applications are invited for the following post under the direction of the State Engineer, Government of Qatar, Doha:

DESIGN ENGINEER.

Applicants for the post of Design Engineer should be qualified Civil Engineers (Associate Members of the Institution of Civil Engineers or other internationally recognised body) having particular experience of the layout and design of roads (bitumen macadam and reinforced concrete) and reinforced concrete structure, together with a sound working knowledge of the design of water supply, sewerage and sewage disposal schemes. Applicants should be rapid and competent draughtsmen.

The successful applicant will assist in the design of many of the civil engineering works associated with a rapidly expanding town.

SALARY for the above appointment will be according to Scale E2 starting at Rs. 1,775/- an Arabic month with annual increment of Rs. 75/- a month up to Rs. 2,000/-, and then by annual increment of Rs. 100/- per month to a maximum of Rs. 2,300/- per month. (Rs. 1,775/- an Arabic month is equivalent to £1,590 a Gregorian year.)

GRATUITY.—Payable on the basis of one month's pay for each completed year of service; on completion of contract only.

PROBATION.—Probationary period of six months during which contract may be terminated at three month's notice by the Government without stating its reason.

CONTRACT.—A five-year contract subject to successful completion of the probationary period. The employee may terminate the contract at three months' notice only after completing one year's service.

ACCOMMODATION. — Free furnished bachelor accommodation, fuel, light and water. Married accommodation will be provided in accordance with the rules but in no case before successful completion of probationary period.

LEAVE will be earned at the rate of six days for each completed month of duty.

FREE TRAVEL.—On first journey to Qatar, leave not exceeding one return first-class air passage in each year, and termination, for wife and children up to 18 years of age.

GENERAL.—The climate is hot for about five months of the year, but this is offset by air-conditioning in staff houses and offices. Good climate for the rest of the year. No income tax. Duty car allowance. Free medical and dental treatment.

Applications, endorsed "Design Engineer," giving full personal particulars, including age, nationality, religion, education, marital status, qualifications, training, past experience and employment, names and addresses of three referees, and recent photograph, should be sent in duplicate to The Adviser to the Government of Qatar, P. O. Box 36, Doha, Qatar, Persian Gulf. A FURTHER TWO COPIES, with enclosures similarly endorsed, should be sent to C. TENNANT, SONS & CO., Ltd., 4, Copthall-avenue, London, E.C.2.

BEDFORDSHIRE COUNTY COUNCIL.

Applications are invited for the posts of ASSISTANT ARCHITECT, A.P.T. Grade V (£795-£970) and ARCHITECTURAL ASSISTANTS, A.P.T. Grade II (£595-£675) and A.P.T. Grade I (£530-£610) in the County Architect's Department. Application forms from County Architect, Shire Hall, Bedford, to be returned by 20th AUGUST, 1956.

EAST ELLOE RURAL DISTRICT COUNCIL.

APPOINTMENT OF HOUSING MANAGER.

Applications are invited for the above appointment. Salary commencing at £650 per annum rising to £710 per annum (Grade A.P.T. III) plus travelling allowances.

The person appointed will have control of the Direct Labour Department and must have a sound knowledge of building construction and repairs and will be responsible for the general management (excluding rent collection) of the Council's houses which number upwards of 1,600.

The appointment will be subject to a medical examination, the National Scheme of Conditions of Service and the Local Government Superannuation Acts.

Housing accommodation will be made available if required.

Applications endorsed "Housing Manager," stating age, qualifications and experience, together with the names of two persons to whom reference may be made, should reach the undersigned not later than the 20th AUGUST, 1956.

Canvassing will disqualify.

J. C. PYWELL,
Clerk to the Council.

Council Offices,
Mattimore House,
Holbeach,
Spalding, Lincs.

L'

COUNTY BOROUGH OF DEWSBURY.

BOROUGH ARCHITECT AND BUILDING SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of PRINCIPAL ASSISTANT ARCHITECT (Housing and General Section) at a salary in accordance with A.P.T. Grade V (£795-£970 per annum), the commencing salary to be fixed within the scope of this grade according to qualifications and experience.

Applicants should be Associates of the R.I.B.A. with good architectural experience and knowledge of local government procedure. Housing accommodation will be made available if required.

The appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Acts. The successful applicant will be required to pass a medical examination.

Applications, stating age, education, qualifications, full particulars of training and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than TUESDAY, 28th AUGUST, 1956, endorsed "Principal Assistant Architect."

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury.
31st July, 1956.

BOROUGH OF BILSTON.

APPOINTMENT OF GENERAL FOREMAN.

Applications are invited for the appointment of GENERAL FOREMAN on the staff of the Housing Director at a salary in accordance with Grade A.P.T. III (£640 x £25 x £765 per annum) minimum commencing salary £715.

Applicants must have had considerable experience in the building industry and the organisation and execution of repairs and maintenance of houses and other public building works by direct labour, possess a sound knowledge of all building trades and preference will be given to applicants with recognised qualifications.

The appointment will be subject to the National Scheme of Conditions of Service, a medical examination and the Local Government Superannuation Acts 1937 and 1953. It is a special condition of the appointment that the hours worked are 44 hours per week, similar to those in the building industry.

Forms of application may be obtained from the Housing Director, 20, Wellington-road, Bilston, to whom they should be returned not later than 27th AUGUST, 1956.

A. M. WILLIAMS,
Town Clerk.

Town Hall,
Bilson,
Staffs.
2nd August, 1956.

TECHNICAL

INSTRUCTORS (CARPENTRY and JOINERY) and (BRICKLAYING) required by GOVERNMENT OF NIGERIA EASTERN REGION EDUCATION DEPARTMENT on contract for two tours each of 12-24 months in first instance. Salary scale (including Inducement Addition), £810, rising to £1,386 a year. Resettlement grant at rate of £100—£150 a year. Commencing salary according to age, qualifications and experience. Outfit allowance £60. Free passages for officer and wife. Assistance towards children's passages or grant up to £150 annually towards maintenance in U.K. Liberal leave on full salary. Candidates must have served an apprenticeship and have had subsequent trade experience. They must possess a C. and G. final certificate in the relevant trade or a similar qualification, and have had previous teaching and/or trade training experience. Write to the Crown Agents, 4, Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote M2B/41897/BH for Carpentry and Joinery post and M2B/41898/BH for Bricklaying post.

EAST ELLOE RURAL

DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above A.P.T. II appointment in the Architect's Department.

The appointment will be subject to the National Scheme of Conditions of Service and to the provisions of the Local Government Superannuation Acts. Housing accommodation will be made available if required.

Applications endorsed "Architectural Assistant," stating age, qualifications and experience, together with the names of two persons to whom reference may be made, must be forwarded to the undersigned not later than 31st August, 1956.

J. C. PYWELL,
Clerk to the Council.

Council Offices,
Mattimore House,
Holbeach,
Spalding, Lincs.

METROPOLITAN

BOROUGH OF GREENWICH.

APPOINTMENT OF INSPECTOR OF WORKS.

Applications are invited for the appointment of Inspector of Works (unestablished) for the supervision of new housing projects.

Applicants must have a sound knowledge of the building trades and of the erection of houses and flats and the works of maintenance.

The salary payable will be based on the scale of Miscellaneous V (£590 to £650 per annum inclusive) and the commencing point will be according to qualifications and experience.

Application forms, obtainable from the undersigned, to be returned completed not later than 3rd SEPTEMBSR, 1956.

HAROLD WHETSTONE,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
August, 1956.

ARCHITECTURAL ASSISTANTS

and JUNIOR ARCHITECTURAL ASSISTANTS required by HACKNEY BOROUGH COUNCIL for extensive programme of new housing, public baths, libraries and other public buildings. Appointments may be in grades A.P.T. I (£530-£610), A.P.T. II (£595-£675) or A.P.T.III (£640-£765) per annum, singly or combined, plus London Weighting allowance of up to £30 per annum. Candidates must be Probationers or Students of R.I.B.A. Grade and commencing salary according to training, qualifications and experience.

Application form obtainable from the Town Clerk, Town Hall, E.8, returnable by 29th AUGUST, 1956, quoting reference K.2.

METROPOLITAN

BOROUGH OF GREENWICH.

APPOINTMENT OF TWO SENIOR ASSISTANTS (ENGINEERING OFFICE).

Applications are invited for the appointments of two Senior Engineering Assistants in the Borough Engineer and Surveyor's Department. The salaries will be within the Grades A.P.T. IV-V (£740 to £1,000 per annum inclusive) and the commencing salary will be in accordance with qualifications and experience.

Candidates should be Chartered Engineers or Chartered Surveyors.

For one of the appointments experience as a Building Surveyor and in structural engineering is essential. For the second appointment candidates should have had at least five years' experience in the technical work of a Borough Engineer's Department, including surveying and road and sewer construction.

Application forms, obtainable from the undersigned, to be returned completed not later than 3rd SEPTEMBSR, 1956.

HAROLD WHETSTONE.
Town Clerk

Town Hall.
Greenwich, S.E.10.
August, 1956.

NORTH-WEST

METROPOLITAN REGIONAL HOSPITAL BOARD.

Applications are invited from Associate Members of the R.I.B.A. for the following newly created post. The Board are engaged on a number of new building projects, including a new hospital at Welwyn.

SENIOR ASSISTANT ARCHITECT.—Salary scale £920 × £30 (5) × £25—£1,095, plus £40—£50 London Weighting. Improved scale awaited. Applicants must have had considerable experience in design and construction, preferably in hospitals and associated buildings.

Apply, giving age, qualifications and experience, together with names of two referees, to Secretary, North-West Metropolitan Regional Hospital Board, 11a, Portland-place, W.1, by 28th AUGUST.

METROPOLITAN

BOROUGH OF SOUTHWARK.

Vacancy for SENIOR QUANTITY SURVEYOR, Borough Engineer and Surveyor's Department. Salary Grade A.P.T. VI (i.e., £910—£1,110 per annum, less £10 p.a. if under 26 years of age). Applicants should possess appropriate qualifications and be capable of taking charge of the Quantities Section of the department. They should be fully experienced in cost analysis, estimating, taking-off, abstracting and billing, measuring works in progress and settling final accounts. Local Government experience will be an advantage. Permanent post. Council's Conditions of Service and Superannuation Scheme apply. Medical examination. No housing provided. Canvassing will disqualify. Application forms obtainable from the undersigned. Closing date 4th SEPTEMBER, 1956.

E. J. PITT,
Town Clerk.

Southwark Town Hall
(Near Elephant and Castle
Underground Station),
Walworth-road, S.E.17.

CITY OF LEEDS.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECT, Grade A.P.T. V. Salary scale £795-£970.
(b) ARCHITECTURAL ASSISTANTS, A.P.T. I. Salary scale £530-£610.
(c) CLERK OF WORKS, A.P.T. II. Salary scale £595-£675.
(d) CLERK OF WORKS, A.P.T. I. Salary scale £530-£610.

The payment of salary increments will be subject to satisfactory service and will be granted normally with effect from the 1st April following the completion of six months' service.

The appointments are subject to the Local Government Superannuation Acts 1937-1953, and the successful candidate will be required to pass a medical examination.

Application forms may be obtained from the City Architect, Priestley House, Quarry Hill, Leeds, 9, to whom they should be returned together with copies of three recent testimonials by 12 noon on SATURDAY, 1st SEPTEMBER, 1956.

R. A. H. LIVETT,
O.B.E., A.R.I.B.A.,
City Architect,
Priestley House,
Quarry Hill,
Leeds, 9.

2nd August, 1956.

SOUTH MANCHESTER

HOSPITAL MANAGEMENT COMMITTEE. Withington Hospital, Manchester, 20. Applications are invited for the post of SUPERINTENDENT ENGINEER AND GROUP CLERK OF WORKS. Duties will include responsibility for engineering services and building works throughout the Group, which comprises six Hospitals, totalling 2,232 beds, and two Clinics. Applicants must hold one of the following qualifications:—

(i) First Class Certificate of Competency in Marine Engineering or equivalent Naval Certificate;
(ii) City and Guilds Full Technological Certificate in Plant Engineering; or approved equivalent qualification.

Salary scale £1,050 x £30 (2) x £40 (3) —£1,250 p.a. Whitley Council conditions of service. Applications stating age, qualifications, experience and the names and addresses of three referees should reach the Group Secretary at the above address within 14 days of the appearance of this advertisement.

CITY ARCHITECT'S

DEPARTMENT—MANCHESTER.

CLERK OF WORKS Required on permanent staff staff. Salary A.P.T. Grade III £640-£765 per annum. Particulars and form of application from City Architect, P.O. Box 488, Town Hall. Closing date 25th AUGUST.

HARLOW DEVELOPMENT

CORPORATION.

Applications invited for—

(a) CLERKS OF WORKS (£695—£835 per annum).
(b) ASSISTANT CLERKS OF WORKS (£565—£715 per annum).

Previous experience on large-scale building works essential. Superannuation. Dwelling accommodation in suitable cases. Applications, stating post applied for, previous experience, and copies of two recent testimonials, to General Manager, Terlings, Harlow, Essex, within 10 days.

BOROUGH OF WEMBLEY.

ASSISTANT BUILDING SURVEYORS (2)-A.P.T. IV (£740-£915 per annum inclusive).

Applications from experienced persons who have passed the A.R.I.C.S. Examination, disclosing any relationship to a Member or Senior Officer of the Council, giving the names and addresses of three referees and quoting reference B. must reach the Borough Engineer and Surveyor, Town Hall, Wembley, by the 25th AUGUST, 1956. Canvassing disqualifies. Housing accommodation not provided.

BOROUGH OF

KIDDERMINSTER.

CLERK OF WORKS.

Applications are invited for the post of Clerk of Works (Temporary) at a salary in accordance with Grade Miscellaneous IV (£490-£575 per annum).

Applicants must have had sound experience in the various building trades and be competent in supervision, setting out, measurement of work, record keeping and the preparation of reports. Housing accommodation will be made available if necessary.

Applications, giving full particulars and concise details of experience, and accompanied by the names of two persons to whom reference may be made, must be delivered to the undersigned not later than 24th AUGUST, 1956.

J. G. STEWART.
Borough Engineer and Surveyor.

110, Mill-street,
Kidderminster.

STOREKEEPERS required by

UGANDA GOVERNMENT, Public Works Department, for tour of 30-36 months with prospect of renewal. Commencing salary according to age and experience between £912 and £1,257 a year in scale (including inducement pay), £813 rising to £1,341 a year. Provident fund. Outfit allowance £30. Free passages. Liberal leave on full salary. Candidates, between 25 and 45, must have experience in holding and recognition of general materials used in building industry. Some knowledge of stores accounting essential. Write to the Crown Agents, 4, Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote M1B/43554/BH.

HACKNEY BOROUGH

COUNCIL Require the following engineering staff:

SENIOR ASSISTANT ENGINEER-A.P.T. VI/VII (£880-£1,200 per annum).

ASSISTANT ENGINEER-A.P.T. IV/V (£710-£970 per annum).

ENGINEERING ASSISTANT-A.P.T. II (£595-£675 per annum).

plus London Weighting allowance. The grades and commencing salaries of successful candidates will be fixed according to training, qualifications and experience.

Application form obtainable from the Town Clerk, Town Hall, London, E.8, returnable by 29th AUGUST, 1956, quoting reference K.3.

VACANCY for CLERK OF

WORKS (CONSTRUCTION) in the Feltham, Middlesex, area. Salary: £665 rising £25 per annum to £765. Qualifications: Ordinary National Certificate in Building, or equivalent standard.

Write, stating age, qualifications and experience, to CRE North London, King's Buildings, Dean Stanley-street, S.W.1.

BOROUGH OF

WALTHAMSTOW.

Applications are invited for the following appointment in the Department of F. G. Southgate, A.R.I.B.A., M.I.Mun.E., A.M.T.P.I., Borough Architect, Engineer and Surveyor:

ASSISTANT QUANTITY SURVEYOR.

The salary for the post will be in accordance with A.P.T. Grade II (£625—£705, inclusive of London Weighting), with the commencing salary according to experience.

Applicants must have had at least two years' recent practical experience.

Applications, with the names of two persons for reference, should be received by the undersigned not later than noon on FRIDAY, 31st AUGUST, 1956, endorsed "Assistant Quantity Surveyor."

G. A. BLAKELEY,
Town Clerk.

Town Hall,
Walthamstow, E.17.
3rd August, 1956.

CITY AND COUNTY OF

BRISTOL.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned permanent appointments:—

(a) SENIOR ASSISTANT ARCHITECTS, Grade A.P.T. III (£640 × £25—£765 p.a.); or Special Scale (£690 × £30 —£840 p.a.).
(b) ASSISTANT ARCHITECTS, Grade A.P.T. II (£595 × £20—£675 p.a.).
(c) ASSISTANT ARCHITECTS, Grade A.P.T. I (£530 × £20—£610 p.a.).

Starting grade will be appropriate to professional experience and qualifications.

HOUSING ACCOMMODATION AVAILABLE, IF NECESSARY, AT AN ECONOMIC RENT.

Further particulars and application forms obtainable from me. Applicants must state the post for which they are applying. Completed application forms to be received by 24th AUGUST.

J. NELSON MEREDITH,
F.R.I.B.A.,
City Architect.

The Council House,
College Green,
Bristol, 1.
4th August, 1956.

BOROUGH OF SWINTON

AND PENDLEBURY.

CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for this appointment in the department of the Borough Engineer and Surveyor. Salary within the Grades A.P.T. IV-V (£710-£970 per annum). Applicants must hold the final qualification of R.I.B.A. and be registered architects with good experience in municipal housing.

Details from Borough Surveyor, Town Hall, Swinton, Lancashire. Closing date for return of form of application 10th SEPTEMBER, 1956.

Canvassing disqualifies.

VINCENT COLLINGE,
Town Clerk.

BOROUGH OF RHONDDA.

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR, in the Department of the Borough Housing Architect, at a salary in accordance with Grade A.P.T. II (£595 × £20—£675).

Applicants should possess the Intermediate Examination R.I.C.S. (Quantities Sub-division) or I.Q.S., and should have practical experience in measurements for interim certificates and final accounts.

The appointment will be terminable by one month's notice on either side and will be subject to the National Scheme of Conditions of Service. The successful candidate will be required to pass a medical examination and will contribute to the Council's Superannuation Fund.

Applications, on forms to be obtained from the Borough Housing Architect, Mr. C. Gingell, A.R.I.B.A., A.R.I.C.S., 13, Ystrad-road, Pentre, Rhondda, accompanied by two testimonials, must be returned to the undersigned in plain envelopes, endorsed "Assistant Quantity Surveyor," so as to arrive not later than FRIDAY, the 31st AUGUST, 1956.

D. J. JONES, C.B.E.,
Town Clerk.

Municipal Offices,
Pentre,
Rhondda.
2nd August, 1956.

BOROUGH OF WILLESDEN.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited, in an expanding office, for the following permanent appointments:—

(a) ARCHITECTURAL ASSISTANT, A.P.T. VI (£880—£1,080).

Applicants must be A.R.I.B.A. and will be required to work as a Group Leader on schemes consisting mainly of housing projects.

(b) ARCHITECTURAL ASSISTANTS (three posts), Grade A.P.T. V (£795—£970).

(c) ASSISTANT ARCHITECT, A.P.T. III—IV (£640—£885).

(d) ASSISTANT ARCHITECTS (three posts), A.P.T. III (£640—£765).

London weighting is payable in addition to the above. The Council is unable to assist with housing accommodation. Forms of application and conditions of appointment may be obtained from the Borough Engineer and Surveyor, Town Hall, Dyne-road, Kilburn, N.W.6. Applications to be returned to the undersigned not later than 9 a.m. on MONDAY, 27th AUGUST, 1956. When writing for application forms candidates must state for which appointment they wish to apply.

R. S. FORSTER,
Town Clerk.

2nd August, 1956.

CITY OF SHEFFIELD.

ESTATES SURVEYOR'S DEPARTMENT.

Applications are invited for the following posts from persons eligible for appointment in accordance with the N.J.C. Scheme of Conditions of Service (Para. 28):—

ASSISTANT VALUERS, Grade IV (£710 × £35—£885). Experience in the valuation of all types of property an advantage.

PROPERTY ASSISTANTS (Grade II, £595 x £20—£675). 38-hour week. Payment for overtime.

Experience required in (a) repairs, conversions and demolitions or (b) letting and management of urban properties.

Salary within the grades according to experience in both cases. Alternate Saturday morning leave also applies.

Applications, stating post applied for, age, education and training (with dates), qualifications, present and past appointments (with dates, experience and salaries), and the names of two referees should be forwarded to me by the 16th AUGUST, 1956.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.

LIVERPOOL REGIONAL HOSPITAL BOARD.

ASSISTANT ARCHITECT required for temporary appointment in the Department of the Regional Architect in connection with the design and construction of a new 1,000 bedded Mental Deficiency Hospital.

Salary scale £640 × £25 (4) × £30 (4) × £35 (2) to £930 p.a., which is subject to a recently negotiated increase of approximately 6 per cent.

The starting salary will be dependent upon age and experience, and the appointment will be terminable by one month's notice on either side.

Applications, stating age, experience, qualifications, present and past appointments and salary and names and addresses of three referees (two technical), to me not later than 24th AUGUST, 1956.

VINCENT COLLINGE,
Secretary to the Board.

19, James-street,
Liverpool, 2.

CENTRAL ELECTRICITY AUTHORITY

require an ASSISTANT QUANTITY SURVEYOR at Headquarters in London, to assist with work in connection with the building and civil engineering works associated with power station construction, including the co-ordination of methods of preparing Bills of Quantities and contract documents, the critical examination of draft and tender documents, analysis of prices, agreement of rates and assessment of claims. Candidates should have some experience of the preparation of contract documents and settlement of Final Accounts for large industrial building and civil engineering works, preferably associated with modern power station construction, and should have qualifications equivalent to A.R.I.C.S. or the I.Q.S. Salary within N.J.B. Grade II, £1,045—£1,395 inclusive. Applications, stating age, qualifications, experience, present position and salary to D. Moffat, Director of Establishments, Winsley-street, W.1, by 22nd AUGUST, 1956. Quote Ref. /B864.

STAFFORDSHIRE COUNTY COUNCIL.

EDUCATION ARCHITECT'S DEPARTMENT.

ASSISTANT INSPECTOR OF BUILDINGS.

Applications are invited for the post of ASSISTANT INSPECTOR OF BUILDINGS in the South West Divisional area, based at Dudley, from persons having practical experience in the building trade, the preparation of specifications and estimates, and who are car owners. Salary will be in accordance with Grade A.P.T. II (£595-£675 per annum).

Forms of application, which must be returned within 10 days from the date of this advertisement, may be obtained from:—A. C. H. Stillman, F.R.I.B.A., County Education Architect, Green Hall, Lichfield-road, Stafford.

T. H. EVANS,
Clerk of the County Council.

CENTRAL ELECTRICITY AUTHORITY—SOUTHERN DIVISION.

Applications are invited for the following position:—

FOURTH ASSISTANT ENGINEER (CIVIL), Transmission Department, Divisional Headquarters, Portsmouth.

Applicants should be experienced in the setting out and supervision of site works, comprising heavy foundations, reinforced concrete structures and buildings, and will be required for the construction of high voltage outdoor substations. They should also be capable of taking measurements and agreeing final accounts, and a knowledge of the preparation of quantities for Tenders will be an advantage. Candidates should possess qualifications leading to corporate membership of the Institute of Civil Engineers.

The successful applicant will be based at Portsmouth but will be required to be mobile.

Salary N.J.B. AX/CX Grade V, £735 × £25—£900.

Special application forms, obtainable from P. D. A. Oliver, Divisional Secretary, Central Electricity House, 111, High-street, Portsmouth, should be returned by 22nd AUGUST, 1956.

NATIONAL COAL BOARD —WEST MIDLANDS DIVISION.

Applications are invited for posts of ARCHITECT, Grade II, in the Divisional Chief Architect's Department at Fenton, Stoke on Trent.

Salary £700 × £30—£1,000.

Applicants must be Associate Members of the Royal Institute of British Architects and have experience in design, preparation of sketch plans, working drawings, specifications and limited supervision of works in progress. The appointments are superannuated, and the point of entry into the scale will depend on knowledge and experience.

Office is engaged on a large programme of varied and interesting work of industrial and welfare nature and offers scope for applicants with a progressive outlook.

Superannuation rights under Local Authority and certain other schemes are transferable.

Write for application form to the Divisional Chief Staff Officer, West Midlands Division, National Coal Board, Himley Hall, near Dudley, Worcs., within 14 days of the appearance of this advertisement.

METROPOLITAN BOROUGH OF WANDSWORTH.

CLERK OF WORKS.

Applications invited for the temporary post of Clerk of Works to supervise road and sewer works carried out by contract. Salary—Misc. Grade VI (£635 rising to £700) 44-hour week.

Application forms from Borough Engineer, Municipal Buildings, S.W.18, returnable to me by 22nd AUGUST, 1956.

R. H. JERMAN,
Town Clerk.

COUNTY BOROUGH OF BOURNEMOUTH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of:—

(a) ASSISTANT ARCHITECT. Special Salary Scale, £690—£840 p.a.

(b) ARCHITECTURAL ASSISTANT. Salary Grade A.P.T. II, £595—£675 p.a.

(c) JUNIOR ASSISTANT QUANTITY SURVEYOR. Salary Grade A.P.T. III, £640—£765 p.a.

(d) JUNIOR ASSISTANT QUANTITY SURVEYOR. Salary Grade A.P.T. I, £530—£610 p.a.

Candidates for post (a) must be fully qualified (by examination) members of the R.I.B.A., for post (b) to have had some experience after passing the Intermediate Examination of R.I.B.A., and for posts (c) and (d) experience in a Quantity Surveyor's office after passing R.I.C.S. Intermediate Examination. Successful candidates will be appointed at present salary if within the incremental scale.

Application forms and further particulars from Borough Architect, Town Hall, Bournemouth. Completed applications to reach me by 10 a.m. 25th AUGUST, 1956.

A. LINDSAY CLEGG,
Town Clerk.

URBAN DISTRICT COUNCIL OF BASILDON.

ARCHITECTURAL ASSISTANT — GRADE A.P.T. III (£640—£765 P.A.).

Applications are invited for the above established post in the Engineer and Surveyor's Department.

Commencing salary according to experience and qualifications. Inter. R.I.B.A. or equivalent required. Housing considered.

The Urban District has a population of 59,000, covers 27,000 acres and includes the New Town area and two Townships designated as Expanded Towns. Rapid development will provide an increasing variety of interesting work.

Full particulars and application forms from and returnable to Mr. S. A. Wadsworth, A.M.I.C.E., A.M.I.Mun.E., Council Offices, High-street, Billericay, Essex. Closing date 25th AUGUST, 1956.

COUNTY BOROUGH OF SMETHWICK.

BUILDING AND MAINTENANCE DEPARTMENT.

(Amended Advertisement)

STOREKEEPER required for new Stores embracing Building Materials and Plant. Salary Scale Misc. Grade III (£445-510 per annum) commencing at an appropriate stage. Applications to be submitted by 17th AUGUST, 1956, stating age, qualifications and experience, together with two recent testimonials or names of two referees, to the Manager, Smethwick Corporation Building and Maintenance Department, Rolfe-street, Smethwick, 40.

E. L. TWYCROSS,
Town Clerk.

2nd August, 1956.

LONDON COUNTY COUNCIL requires:—

(1) LANDSCAPE ARCHITECTURAL ASSISTANTS for new parks, playing fields, school grounds.

(2) ARCHITECTURAL ASSISTANTS for work on sports pavilions, cafés, service buildings, etc., in parks.

Salaries up to £817 16s. a year, according to qualifications and experience.

Apply, giving brief particulars, to Chief Officer of the Parks Department, Old County Hall, Spring Gardens, S.W.1. (Whitehall 3121, Ext. 319.)

(1549)

COUNTY BOROUGH OF DERBY.

BOROUGH ARCHITECT'S DEPARTMENT.

Architectural Staff:

(a) A.P.T. Grade IV (£710—£885 per annum);

(b) A.P.T. Grade III (£640—£765 per annum);

(c) A.P.T. Grade II (£595—£675 per annum);

(d) A.P.T. Grade I (£530—£610 per annum);

(e) Higher General Division (£180—£500 per annum).

Quantity Surveying Staff:

(f) A.P.T. Grade V (£795—£970 per annum).

Commencing salary will be according to qualifications and experience.

Permanent superannuable appointments subject to one month's notice and to medical examination.

National Conditions of Service.

Applicants must state for which post they are applying.

Application forms obtainable from, and to be returned to, The Borough Architect, The Council House, Corporation-street, Derby, not later than MONDAY, 27th AUGUST, 1956.

G. H. EMLYN JONES,
Town Clerk.

30th July, 1956.

COUNTY BOROUGH OF EAST HAM.

BOROUGH ENGINEER'S DEPARTMENT.

JUNIOR ARCHITECTURAL ASSISTANTS
GRADE I £530-£610.

London Weighting is paid in addition. Salary in excess of the minimum may be paid according to qualifications and experience.

Subsistence allowances may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and application forms returnable by 24th AUGUST, 1956, from the Town Clerk, Town Hall, East Ham, E.6.

BOROUGH OF BEBINGTON.

APPOINTMENT OF:
(a) ASSISTANT ARCHITECT
(b) GENERAL ENGINEERING ASSISTANT

Applications are invited for the above appointments in the Department of the Borough Engineer and Surveyor each at a salary ranging between £530 and £840 per annum (i.e. Grade I A.P.T., Grade II A.P.T., or Special Grade) according to qualifications and experience. Minimum requirement for post (a) is Inter R.I.B.A. or equivalent. Charter conditions apply.

The successful candidates if married and in need of housing at the time of appointment will be offered a house by the Council within a reasonable period of time.

Application forms and further particulars may be obtained from the Borough Engineer & Surveyor, "Brackenwood," Higher Bebington.

Canvassing, or an undisclosed relationship to a member or senior officer will disqualify.

Applications are to be sent to the Town Clerk, Municipal Offices, Bebington, Cheshire, not later than 25th AUGUST, 1956.

G. CHAPPELL,
Town Clerk.

CITY OF OXFORD.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Vacancies on permanent staff:—

(a) SURVEYING ASSISTANT, Grade IV A.P.T. Division (within the range £710—£885).

Housing accommodation provided.

Candidates must be qualified members of the Royal Institution of Chartered Surveyors or the Chartered Auctioneers' and Estate Agents' Institute and additional qualifications in Planning will be an advantage.

Varied duties in the Estates and Planning Sections of the Department, particularly with regard to acquisition of property in areas of redevelopment and economics of Planning, including compensation matters. Local Authority experience desirable.

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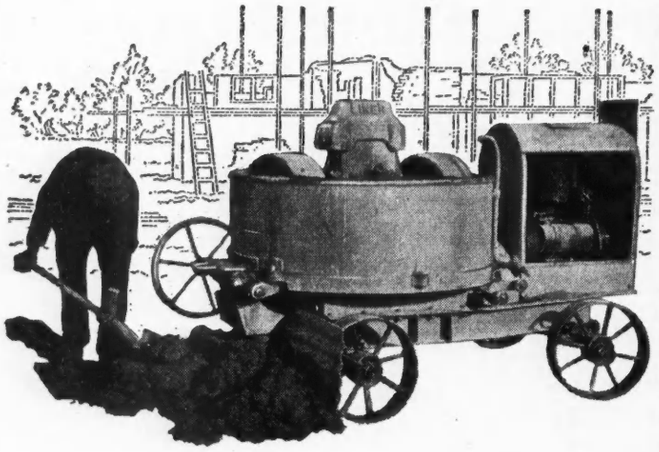

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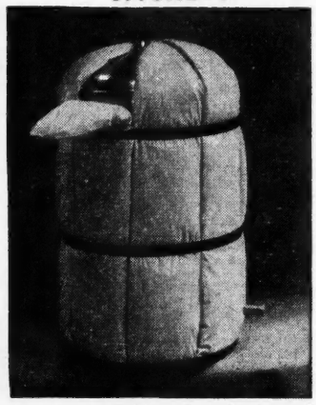

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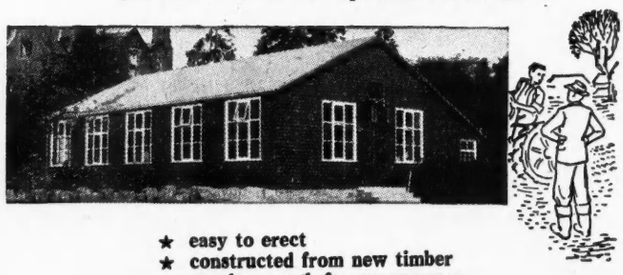

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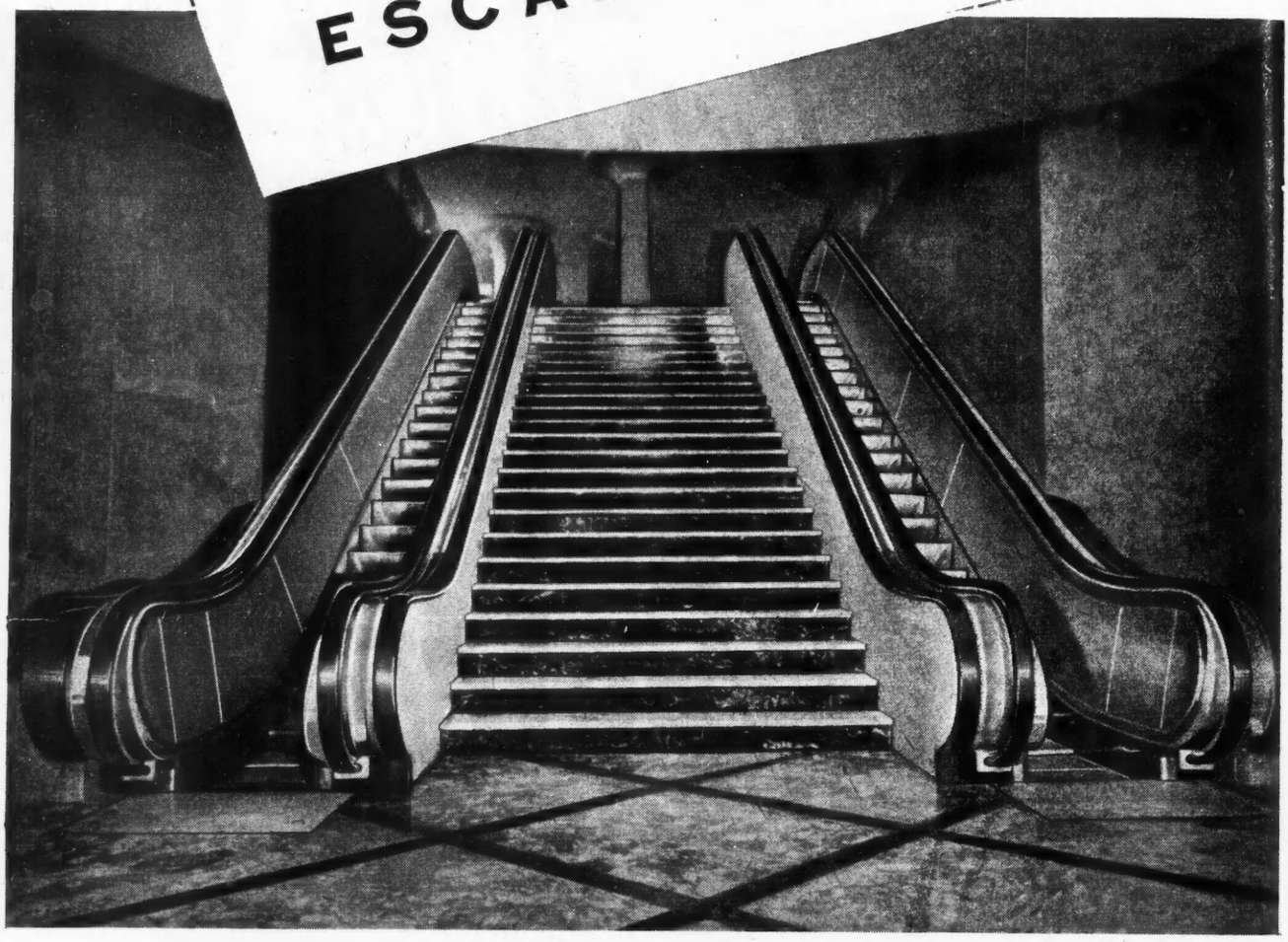

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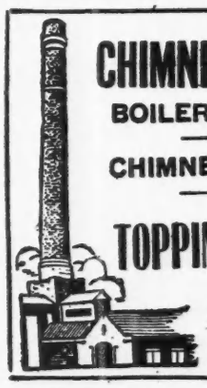
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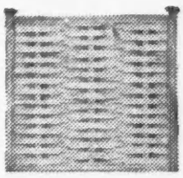
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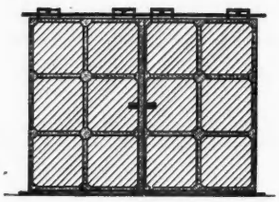

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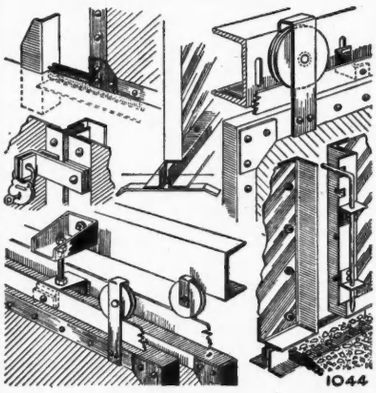

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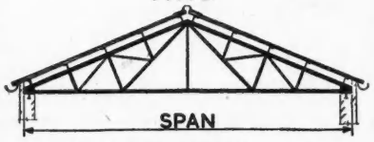

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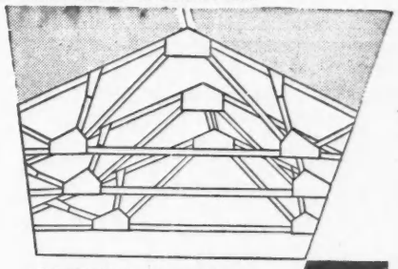

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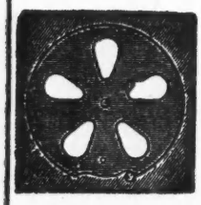

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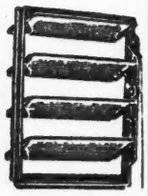

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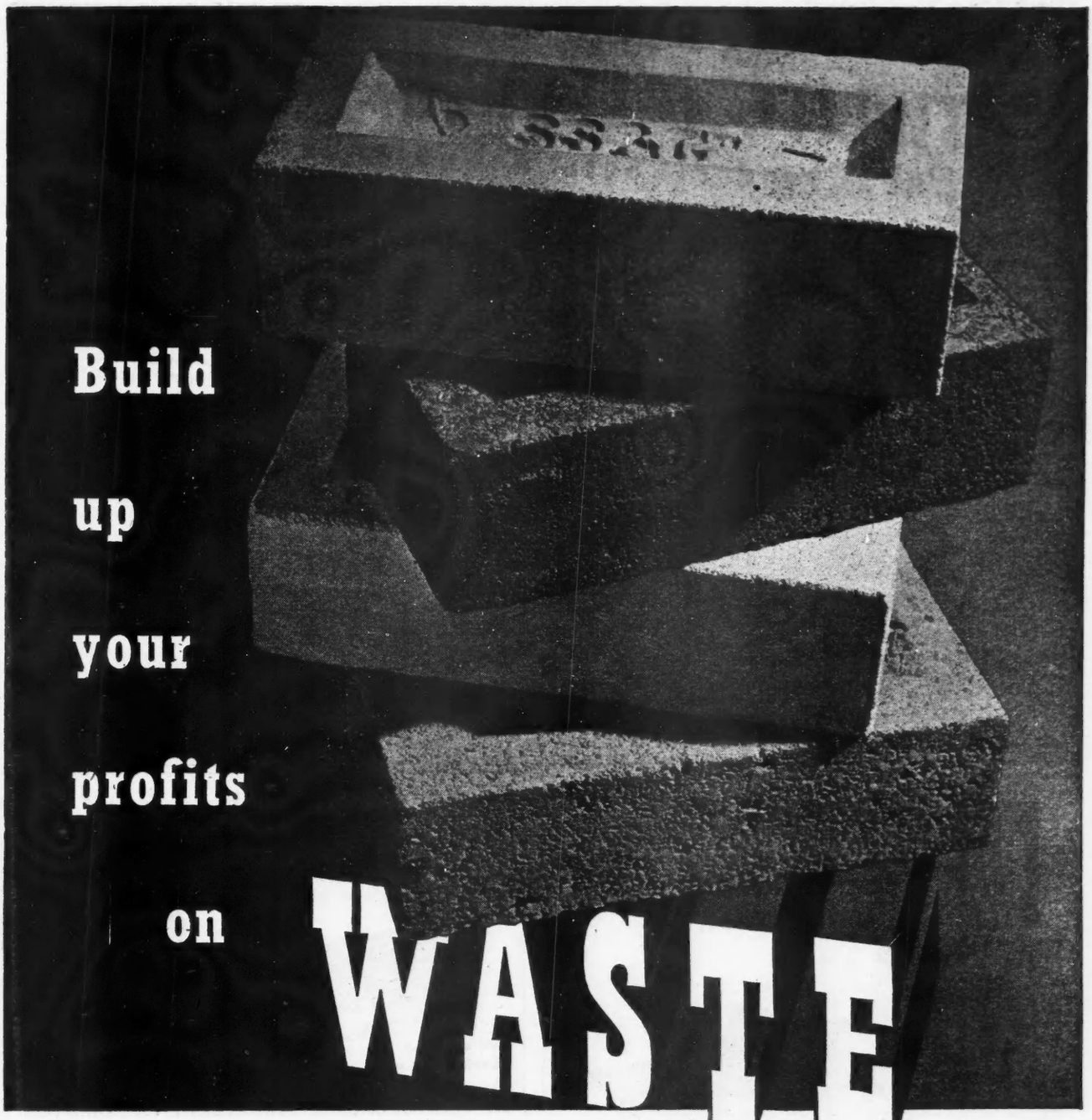

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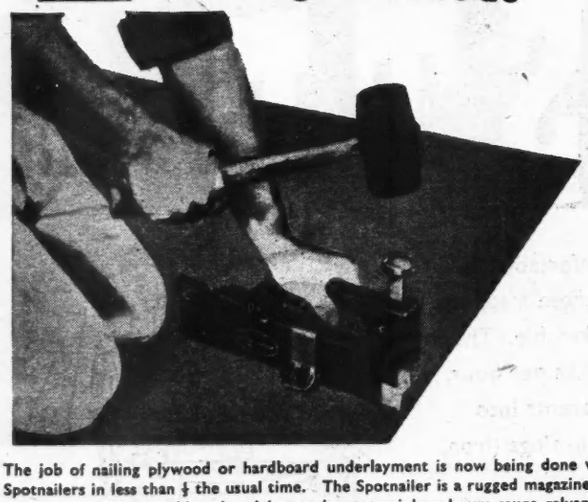

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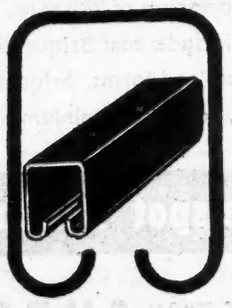

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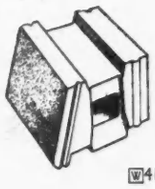

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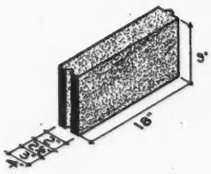

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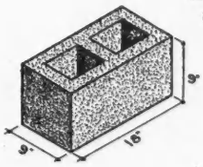

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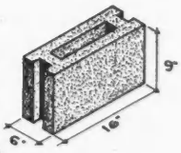

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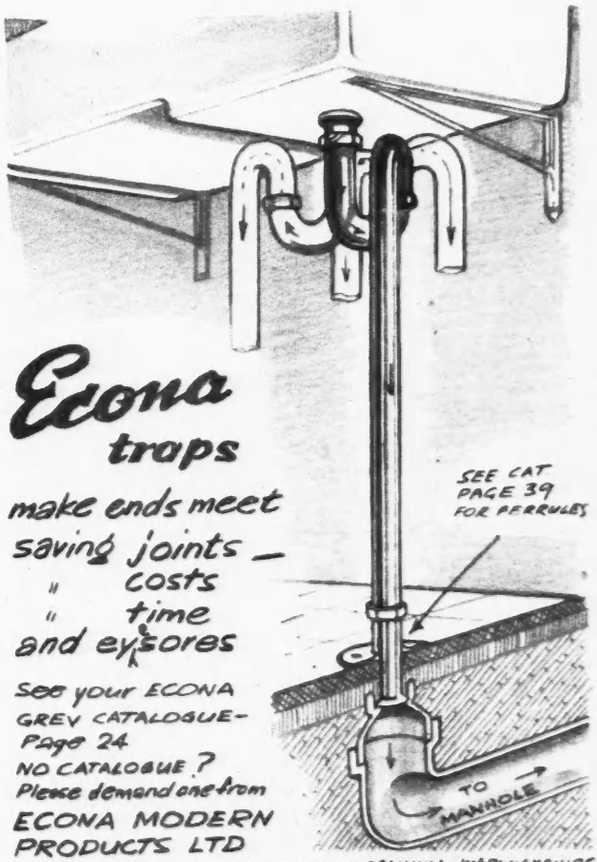

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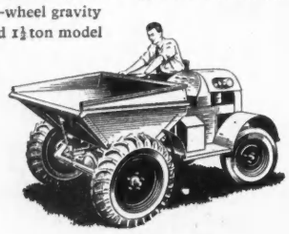

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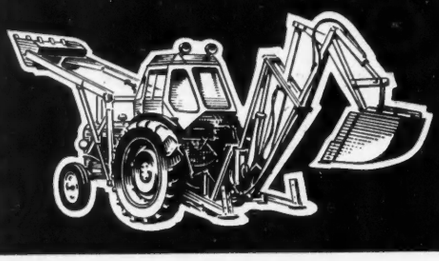

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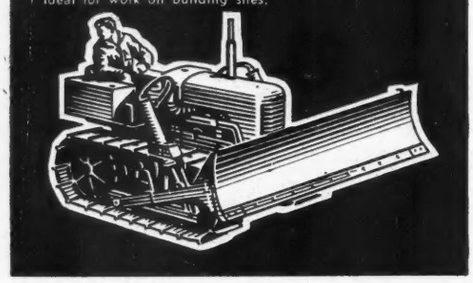

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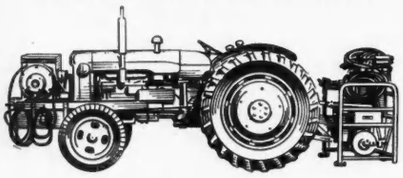

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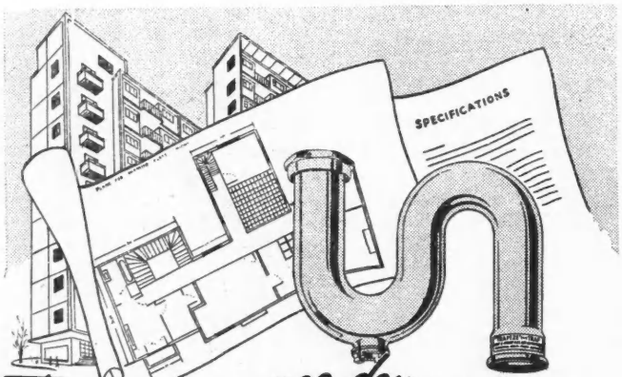

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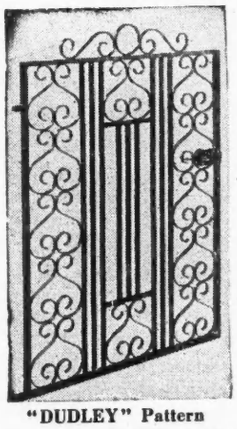

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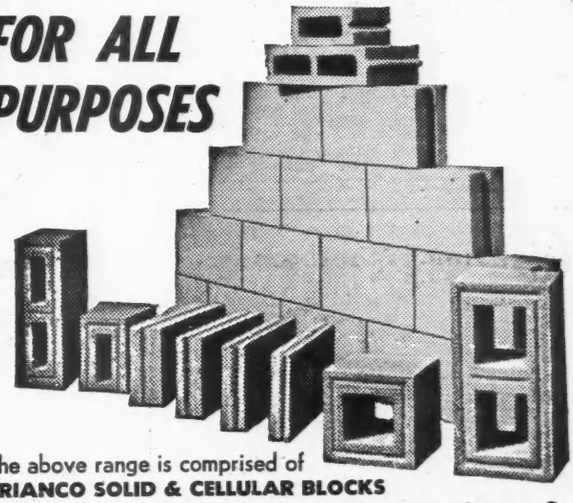

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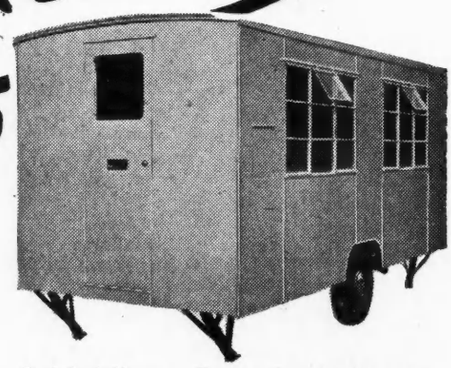

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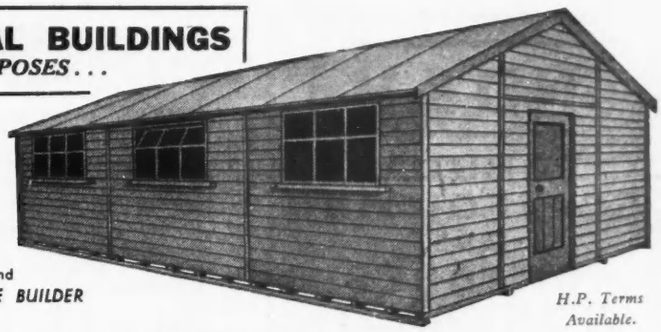

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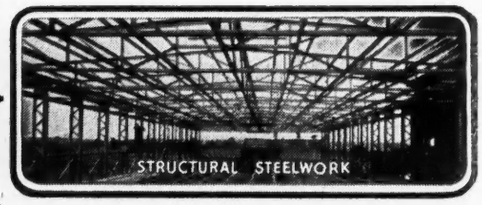

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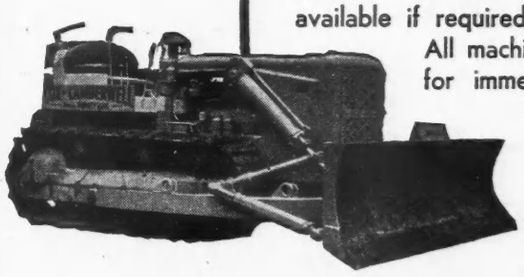

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possessing sound knowledge of Building Construction, particularly as applied to pre-cast concrete Units and Wall and Floor Finishings (Tiles, Terrazzo, Grano, Cement, etc.), ability to read plans, estimate and conduct correspondence and negotiations.

The positions are permanent, progressive and pensionable. Only those possessing the requisite qualifications please write, giving full details and stating salary required, to:

BOX 931, "THE BUILDER"

IMPERIAL CHEMICAL INDUSTRIES, LTD.,
ALKALI DIVISION,
WINNINGTON, NORTHWICH,
CHESHIRE.
STRUCTURAL AND CIVIL ENGINEERING DESIGNERS.

Vacancies exist in our Civil Engineering Department for ASSISTANT TECHNICAL OFFICERS to work as structural and civil engineering designers. Applicants, age 25-40, should possess H.N.C. and have had experience either in structural work or in reinforced concrete and general building work.

Appointments are to the permanent staff, five-day week, with good salaries, first-class working conditions and recreational facilities. Contributory Pension Fund and Profit-sharing Schemes. Married men can receive limited assistance with removal expenses. Write for official application form to Staff Manager, quoting reference GES/STRUCT.

RHODESIA
A leading firm of contractors seek a
CIVIL ENGINEER

This is a key position. Salary £1,500 to £1,750 initially according to experience. Free family passages. Accommodation available at small rental.—Write for full details quoting OSS.86/7 to O.T.S., 5, Welldon-crescent, Harrow, Middlesex.

CHARTERED QUANTITY SURVEYORS with experience by Variations and running of Contracts Required by London Chartered Quantity Surveyors. Experience of substantial contracts with responsibility essential. Good salary and prospects.—Applications with details to Box 926, "The Builder."

EXPERIENCED SITE SURVEYOR for Final Accounts in professional Quantity Surveyors' office in Westminster area. Good salary and prospects for right man.—Apply Box 985, "The Builder."

SENIOR QUALIFIED SURVEYOR Required to take charge of important project in the Midlands for London firm of Surveyors. Excellent prospects.—Reply stating age and experience to Box 988, "The Builder."

QUANTITY SURVEYOR (Building) to work under Director, London office. Final Accounts, some Estimating, Costing. Salary about £850, according to experience.—C. J. SIMS LTD., Abbey House, Victoria-street, London, S.W.1.

CHARTERED Quantity Surveyors require competent experienced MEASURING SURVEYOR for large Contract near Reading. Salary £750 per annum plus Site Living and Luncheon Allowance.—Apply with full details of past experience to Box 3212, "The Builder."

CHARTERED Quantity Surveyors require experienced MEASURING SURVEYOR for large Site Contract near Chester. Good Salary and allowances and possibility of house accommodation.—Please state experience, and salary required. — Box 3213, "The Builder."

MEASURING SURVEYOR Required with at least three years' experience in a Quantity Surveyor's office. Commencing salary £700 p.a., plus considerable overtime and annual bonus.—Box 946, "The Builder."

PLUMBING/MEASURING SURVEYOR Required. Salary £750 p.a. for South Coast plumbing contractors. Car provided. Superannuation scheme operating.—Box 3214, "The Builder."

SENIOR QUANTITY SURVEYOR with leadership qualities, required for leading Midland Building concern. Pension, Life Insurance, Profit sharing scheme, and assistance with car. Only candidates who have the ability to earn a four figure salary or above, need apply. In strictest confidence, send particulars of experience, age, salary, and when free, to Box 3215, "The Builder."

EXPERIENCED MEASURING SURVEYOR Required, aged 25-40, with at least five years' experience in a Quantity Surveyor's office. £900 p.a., plus bonus and overtime, with good prospects for future salary increases.—Box 947, "The Builder."

BONUS SURVEYOR Required for contracts in London area. Pension scheme. State details of experience, and salary required.—A. T. ROWLEY (LONDON), Ltd., Cambridge Works, Lordship-lane, N.17. TOT 3611.

QUANTITY SURVEYORS, preferably qualified are required for major building and civil engineering contracts. Applicants should be under 35, willing to work in any part of the British Isles, and with not less than 10 years' Q.S. experience, including the preparation of final accounts. The posts are permanent and pensionable for suitable men who wish to make their career with the Company, and provide ample scope for advancement.—Applications, in writing, stating age, qualifications and experience, to Personnel Manager (Q.1.), Messrs JOHN LAING & SON, LTD., Building and Civil Engineering Contractors, London, N.W.7.

JUNIOR BUILDING SURVEYOR Required. Preference given to applicants who have had experience in building construction and preparation of plans and specifications for small works. Salary based on Scale, maximum at present £706. Certain free and reduced rate travel facilities will be granted. —Apply, in writing, (giving age and particulars) to Estate and Rating Surveyor, BRITISH RAILWAYS, EASTERN REGION, Marylebone Station, London, N.W.1.

PROGRESSIVE Building Contractors. London area, require services of really keen and experienced SURVEYOR/SUPERVISOR. Excellent prospects for the above average person. Pension Scheme and bonus on results.—Applications in full details, to Box 3216, "The Builder."

HOLLAND & HANNEN AND CUBITTS, LIMITED
require a
PRODUCTION ANALYSIS SURVEYOR
in the London area,
capable of supervising the work of assistant cost surveyors. Please state very briefly details of experience and qualifications, and indicate times available to call to discuss your application, or telephone WHI 3111, Personnel Manager, 1, Queen Anne's Gate, London, S.W.1.

MIDLAND.—Quantity Surveyor, R.I.C.S., able to work on own initiative, Required for professional office. Excellent opportunities. Assistance with accommodation, car provided. —Box 3217, "The Builder."

LEADING Building and Civil Engineering Contractors have vacancies for the following:—
SENIOR and ASSISTANT SURVEYORS, ASSISTANT ESTIMATOR SURVEYOR, CONTRACT SUPERVISORS, AGENTS and GENERAL FOREMEN, SITE ENGINEERS and ASSISTANTS, DRAUGHTSMAN.

The positions are permanent and pensionable after normal qualifying period. Applications, in confidence, giving full details and salary required to Box 3218, "The Builder."

JUNIOR SURVEYORS Required. Preference will be given to applicants who wish to qualify as Quantity Surveyors and who are already taking a recognised course of instruction. A thorough knowledge of carpentry and joinery will be an advantage for one vacancy. Salary will be in accordance with experience.—Please reply to Messrs. WALTER G. BIRCH (Harrogate) LTD., Harrogate.

MEASURING SURVEYOR Required by City firm of Chartered Quantity Surveyors. Five-day week. Pension Scheme.—Write Box 3219, "The Builder."

PAINTING Contractors require fully experienced SURVEYOR/ESTIMATOR. Good salary and advancement assured for right man. Car provided.—ALFRED BAGNALL & SONS LTD., 141, Uxbridge-road, W.12.

PAINTING Contractors require JUNIOR SURVEYOR. National Service completed. Excellent prospects.—ALFRED BAGNALL & SONS LTD., 141, Uxbridge-road, W.12.

SENIOR MEASURING SURVEYOR Required for large Civil Engineering Contract near Rochester likely to run for several years.—Full particulars, please, to Box 3220, "The Builder."

EXPERIENCED MEASURING SURVEYOR wanted by London Chartered Quantity Surveyors for a large contract in Kent.—Reply with full details to Box 3221, "The Builder."

LONDON firm of Chartered Quantity Surveyors Require EXPERIENCED MEASURING SURVEYOR for site office on large Building and Civil Engineering Contract in North West England.—Please write giving full particulars of age, experience and salary required to Box 3222, "The Builder."

EXPERIENCED MEASURING SURVEYOR Required by Chartered Quantity Surveyors for Industrial Pipework contract in South Wales.—In reply please give details of age, experience and salary required to Box 3223, "The Builder."

QUANTITY SURVEYOR Required in Victoria area to take-off and carry through contracts of varied character to final account. Five-day week, pension scheme, luncheon vouchers, extra rate for overtime.—Write, stating age, experience, and salary required, to Box 3191, "The Builder."

REQUIRED Immediately in York and Doncaster, TAKING-OFF and MEASURING SURVEYORS for important building works in this area. Applicants are requested to state when free to commence, age, full particulars of training, experience, and salary required. Selected applicants may be interviewed in York, Doncaster or London and travelling expenses will be paid for interview.—Box 3224, "The Builder."

BONUS SURVEYOR—Experienced, required for London Contracts. Pension scheme in operation, good prospects.—Write, stating age, experience, and salary required, to The General Manager, HUMPHREYS LTD., Knightsbridge, S.W.7.

THE HELICAL BAR & ENGINEERING CO. LTD., Require for their London Office a competent QUANTITY SURVEYOR to take-off and prepare Bills for Reinforced concrete work. Five-day week. Pension scheme.—Apply, in writing, giving brief details of experience, and salary required, to 82, Victoria-street, S.W.1.

TURRIFF CONSTRUCTION CORPORATION LTD., Require a SITE SURVEYOR for Civil Engineering Contracts mostly in the Midlands.—Applicants are requested to write for Application Forms to the Personnel Manager, Budbrooke-road, Warwick.

ESTIMATING AND MEASURING QUANTITY SURVEYOR Required mainly for Industrial Building Contracts by a substantial firm operating in West Riding of Yorkshire. Applicant must be fully experienced and have a successful record in this class of work. The post is a progressive one with excellent prospects for a man with ability and drive. Pension scheme in operation.—Apply with full particulars of age, experience, and salary required, to Box 3264, "The Builder."

EXPERIENCED SURVEYORS needed to work outside of U.K. Must be single and physically fit. Good salary. Foreign bonus and living allowance.—Write details of age and experience to Box B.546, c/o 191, Gresham House, E.C.2.

LAND SURVEYOR Required by alluvial mining company in British West Africa, for work in connection with a concession boundary survey and erection of beacons. Applicants must be qualified (A.R.I.C.S.), experienced in triangulation and traversing, levelling, azimuth observations for meridian and computations. Commencing salary and overseas allowance £105 per month plus £15 per month for married man. No married accommodation available. Bush allowance 15s. per day. Candidates must be prepared to live in bush. Free passages provided. Tours of twelve months with twelve weeks' leave. Send details of age, education, qualifications and experience to C.10 MINE EMPLOYMENT DEPARTMENT, Selection Trust Building, Mason's-avenue, London, E.C.2.

COMPETENT SENIOR QUANTITY SURVEYOR Required by Building and Civil Engineering Contractors, London and Home Counties, to handle large contracts from commencement to finality. Ability and effort financially recognised annually. Transport provided where necessary. Salary according to experience and ability.—Reply, with full details, to Box 3273, "The Builder."

QUANTITY SURVEYOR Required for medium-sized firm of general building contractors in the Gold Coast. Aged 35-45. Excellent salary. Free fully furnished accommodation and medical services provided. Free passages.—Write, giving details of experience and when available to Box 3321, "The Builder."

QUANTITY SURVEYOR

required by

RICHARD COSTAIN LTD.

for their Branch Office in NEWCASTLE

Applicants must be capable of dealing with interim and final accounts, and site measurement. Salary up to £1,000 per annum according to experience.

Write, stating age and full details to:

The Chief Personnel Officer,
111 Westminster Bridge Road, London, S.E.1

CIVIL Engineering and Building Contractors in Provinces require SENIOR QUANTITY SURVEYOR experienced in finalising accounts for large contracts. Excellent salary and conditions, including Pension Scheme after probationary period. Applicants should give full information of past experience, and indicate present and expected salary.—Box 3311, "The Builder."

OPPORTUNITY occurs for competent MEASURING SURVEYOR with London firm Painting Contractors.—Replies in confidence, stating experience, age and salary, to Box 3303, "The Builder."

BONUS
MEASURING SURVEYOR

required by

RICHARD COSTAIN LIMITED

in the LONDON AREA but should be mobile. Experience of costing would be an advantage. Good salary paid to right man. This is a permanent and pensionable appointment.

Write, giving age and full details of experience and salary required, to:

Chief Personnel Officer
RICHARD COSTAIN LIMITED
111 Westminster Bridge Road
London, S.E.1

YOUNG QUANTITY SURVEYOR with initiative Required in new practice in City. Excellent opportunity for the right man. — Box 3325, "The Builder," or telephone Mansion House 5500.

JUNIOR MEASURING SURVEYOR Required by Chartered Quantity Surveyors for Site Work in Sussex. — Please reply stating age, experience, and salary required, to Box 3314, "The Builder."

LONDON Chartered Quantity Surveyors require experienced MEASURING SURVEYOR for Site Work in Sussex.—Please write stating age, experience, and salary required, to Box 3315, "The Builder."

CHARTERED Quantity Surveyor has vacancies on his staff for several JUNIOR ASSISTANTS for working-up.—Reply giving details of age, experience, etc., and salary required, to Box 966, "The Builder."

ASSISTANT Required by Norwich Chartered Quantity Surveyor, of at least Intermediate standard, with experience of junior taking-off, working-up and site measuring, preference given to applicant having completed or being exempt from National Service. State age, salary required and give present position with regard to professional qualification, together with outline details of experience.—Box 3225, "The Builder."

ASSISTANT SURVEYOR Required, preferably recently completed National Service.—Ring HOAD & SON LTD., (Arnold 2962) for appointment.

ASSISTANT MEASURING SURVEYOR to work under supervision. Permanent position. Details age, experience, and salary in handwriting, to A. E. THORNTON-FIRKIN & PARTNERS, 17, Fitzhardinge-street, London, W.1.

ASSISTANT Required by Chartered Quantity Surveyor for his Newbury, Berkshire, office. Must be at least Intermediate standard.—Please reply in own handwriting stating age, experience, and salary required to Box 3271, "The Builder."

ASSISTANT QUANTITY SURVEYOR (minimum Inter R.I.C.S. standard) for taking-off and settling final accounts. Professional office, Westminster. Five-day week, luncheon vouchers, pension scheme. Write, stating qualifications, experience, age, and salary required.—Box 3274, "The Builder."

CHIEF ASSISTANT of good education and personality Required in medium-sized Chartered Quantity Surveyor's office (London). Age about 40-50 years. Must be a member of the R.I.C.S.—a first-class Taker-off with at least 10-15 years' London experience and with an expert knowledge of estimating and analysis of prices. Must also be a keen, thoroughly reliable and conscientious worker. Basic salary £1,500 p.a. plus bonus. Three weeks' annual holiday.—Full particulars of education, training and experience in writing to Box 3304, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required, initially for large Hydro-Electric Contract. Permanent appointment with excellent opportunities for advancement. Good salary and conditions, and entry into Superannuation Scheme arranged after 12 months' service.—Applications, which will be treated in strictest confidence, to: THE MITCHELL CONSTRUCTION COMPANY, Wharf Works, Peterborough, Northants.

SENIOR ASSISTANT Required in medium-sized Chartered Quantity Surveyor's London office, age between 30 and 40 years. Must be A.R.I.C.S., an accurate and expeditious taker-off with at least five years' first-class London experience. Salary £1,200 per annum, plus bonus.—Full particulars in handwriting of education, training and experience, to Box 3305, "The Builder."

YOUNG MAN (16-18) wishing to enter the Quantity Surveying profession required in either London or Birmingham Office of Chartered Quantity Surveyors. Five-day week, lunch vouchers.—Reply, stating age, experience and details of education to—REYNOLDS & YOUNG, 329, High Holborn, London, W.C.1, or 191, Corporations-street, Birmingham, 4.

THE boy of to-day can be the Chartered Surveyor of tomorrow.—Apply to London C.Q.S. and so place his foot on the first rung of the ladder.—Box 914, "The Builder."

YOUTH Required as beginner in London Quantity Surveyors' Office. Write, stating age and particulars of education. Commencing salary £13 per month. —Box 3226, "The Builder."

OFFICE JUNIOR, Youth 16 or 17 leaving school, required by firm of Chartered Quantity Surveyors for their City Office. Excellent opportunity to train for profession.—Write, stating age, education, and salary expected, to Box 3227, "The Builder."

JUNIOR ASSISTANT (16 to 18 years) required for London firm of Chartered Quantity Surveyors (Holborn). Five-day week.—Box 3261, "The Builder."

YOUTH with knowledge of builder's quantities required for a permanent position to train as SURVEYOR and ESTIMATOR in specialist trade. Must have completed National Service.—Please reply, stating age, experience, and salary required, to Box 3263, "The Builder."

BOY from School Required for training in London Chartered Quantity Surveyors' Office. Commencing salary £3 per week.—Apply WHEELER, RUMBLE & PARTNERS, 16, Grenville-street, W.C.1. Terminus 1107.

BOY leaving School Required by Chartered Quantity Surveyors near Holborn to train for the profession. Five-day week. Articles if desired.—Applications stating age, school and subjects taken in G.C.E. to Box 3317, "The Builder."

JUNIOR TAKER-OFF Required in Wetsminster Quantity Surveyors' office. Excellent opportunities for advancement and for gaining experience in all classes of both English and Overseas work.—Apply Box 986, "The Builder."

TAKERS-OFF Required by West End firm of Chartered Quantity Surveyors. Must be experienced and permanent; five-day week.—Box 956, "The Builder."

CHARTERED Quantity Surveyors require TAKER-OFF/MEASURING SURVEYOR for their Site Office Staff in Essex. Intermediate R.I.C.S. standard considered, but preference given to qualified candidate. Five-day week. Modern house probably available if required. Commencing salary £750 per annum. —Reply with full details to Box 996, "The Builder."

SENIOR TAKER-OFF Required by London Chartered Quantity Surveyor. Good salary and prospects to a man having experience of large schemes.—Application with details to Box 916, "The Builder."

SENIOR TAKER-OFF Required by Westminster Quantity Surveyors. The post is a responsible one and there are ample opportunities for suitable applicant. Lunch vouchers provided.—Reply, stating salary required, to Box 991, "The Builder."

TAKER-OFF Required by London Chartered Quantity Surveyors, W.C.2. Five-day week. Write stating salary required.—Box 904, "The Builder."

EXPERIENCED TAKER-OFF Required by old-established Quantity Surveyors in Westminster. Write stating experience, age, and salary required.—Box 907, "The Builder."

TAKER-OFF or MEASURING SURVEYOR (A.R.I.C.S.) recently qualified, required for Chartered Quantity Surveyors Branch Site Office in Berkshire. House available. Five-day week. Subsistence allowance.—Write, giving particulars to Box 3228, "The Builder."

NORTHERN IRELAND—JUNIOR TAKER-OFF or one recently qualified required for Chartered Quantity Surveyor's Office in Belfast, salary according to experience.—Box 3229, "The Builder."

JUNIOR TAKERS-OFF Required. Salary £600—£750 p.a. according to experience. The foregoing salary is exclusive of overtime and bonus.—Box 941, "The Builder."

JUNIOR TAKER-OFF Required, Chartered Quantity Surveyors, City Office. Five-day week. Overtime available. Pension scheme. State experience and salary required, to Box 3230, "The Builder."

EXPERIENCED TAKER-OFF Required. £1,000 p.a.; annual bonus.—Box 939, "The Builder."

AUSTRALIA. — Experienced TAKERS-OFF and WORKERS-UP Required for three-year contracts in Australia; salaries paid approximately 30 per cent. higher than those in England. Transport provided both ways.—Box 943, "The Builder."

AMBITIOUS young TAKER-OFF Required, aged 24-30, with at least five years' experience in a Quantity Surveyor's office, to commence taking-off windows, doors, finishings, etc., and a year or so progress to more advanced work. Commencing salary £600—£750 p.a. according to experience. Scope for considerable overtime at time and a quarter; annual bonus. Salary increases £50—£100, according to progress.—Box 944, "The Builder."

EXPERIENCED TAKER-OFF Required with at least ten years in a Quantity Surveyor's office, aged 26-40. Commencing salary £1,000 p.a., subject to increases of £75 p.a. to £1,300. Overtime and bonus in addition.—Box 945, "The Builder."

TAKERS-OFF Required, A.R.I.C.S., Inter or Final Standard, permanent position, five-day week. Commencing salary £750-£950 per annum. Interview expenses paid.—Write to MORRISON & PARTNERS, 103, Belper-road, Derby.

JUNIOR TAKER-OFF (Final R.I.C.S) Required by Westminster Chartered Quantity Surveyors. Five-day week. L.V. Write in own handwriting, stating age, detailed experience, and salary required. —Box 3231, "The Builder."

TAKER-OFF Required in Central London office of C.Q.S. Salary £700-£800 according to ability.—Box 3232, "The Builder."

SENIOR TAKER-OFF Required by City firm of Chartered Quantity Surveyors. Position holds considerable scope for advancement. Five-day week. Overtime available. Pension Scheme in operation.—Reply giving full particulars of experience, and salary required to Box 3233, "The Builder."

QUALIFIED TAKER-OFF wanted by Holborn firm of Chartered Quantity Surveyors. No Saturday work; pension scheme; luncheon vouchers. When replying, please give full details.—Box 3234, "The Builder."

TAKERS-OFF, MEASURING SURVEYORS and ARTICLED PUPILS Required at Newcastle on Tyne, Coventry and Carlisle.—Particulars from A. H. DAVIS & PARTNER, 28, Osborne-road, Newcastle upon Tyne, 2.

JUNIOR TAKER-OFF Required for London firm of Chartered Quantity Surveyors (Holborn). Long term prospects with excellent opportunities for advancement. Five-day week. Overtime.—Box 3259, "The Builder."

TAKER-OFF, recently qualified or few years' experience, Required for permanent position in Swansea, South Wales. Five-day week, overtime, superannuation after qualifying period. Reply stating age, experience, salary required.—Box 3287, "The Builder."

SUSSEX C.Q.S. require JUNIOR TAKER-OFF, experienced in preparing Final Accounts and Interim Valuations. Luncheon vouchers. Five-day week. Write stating experience. — Box 3293, "The Builder."

LONDON firm of Chartered Quantity Surveyors require JUNIOR TAKERS-OFF and SENIOR WORKERS-UP. Please write, stating age, experience, and salary required, to MESSRS. MERCER & MILLER, 30, Gloucester-place, London, W.1. Telephone: WELbeck 7304.

DAVIS, BELFIELD & EVEREST Require young TAKER-OFF, preferably A.R.I.C.S., for London office. Pension scheme, Luncheon vouchers.—Particulars to 9, Ashley-place, S.W.1.

ASSISTANT Required for sheeting department, experienced in taking-off quantities for all types corrugated sheeting, patent glazing and insulation.—Apply, stating age, and salary required, SANDERS & FORSTER, Hertford-road, Barking.

CHARTERED Quantity Surveyor in Bristol requires TAKER-OFF, A.R.I.C.S. In reply please state age, experience and salary required.—Box 3313, "The Builder."

EXPERIENCED WORKER-UP Required by London Chartered Quantity Surveyors, with prospects of site measuring and junior taking-off.—Applications with details to Box 927, "The Builder."

WORKER-UP (preferably one who does not want to do taking-off) Required by London Chartered Quantity Surveyors. Permanent position. Attractive bonus scheme for good worker. Pension scheme available.—Please reply, in confidence, to Box 924, "The Builder."

WORKER-UP Required by progressive London firm engaged largely on industrial and public works. The post is permanent and there is a Staff Pension scheme.—Please reply to Box No. 374, GLOVERS ADVERTISING, Ltd., 351, Oxford-street, London, W.1.

WORKERS-UP Required by West End firm of Chartered Quantity Surveyors, must be experienced and permanent. Five-day week.—Box 968, "The Builder."

EXPERIENCED WORKER-UP AND JUNIOR Required in Quantity Surveyors' Office near Victoria Station. Five-day week. Luncheon vouchers. —Write stating age, experience and salary required to Box 987, "The Builder."

EXPERIENCED WORKER-UP Required by old-established Quantity Surveyors in Westminster. Write stating experience, age and salary required.—Box 909, "The Builder."

EXPERIENCED WORKER-UP Required for Quantity Surveying Department in London firm of Consulting Engineers. Five-day week. Luncheon vouchers. Superannuation Scheme. Age no objection. —Reply Box No. 935, stating salary required.

NORTHERN IRELAND—WORKER-UP Required for Chartered Quantity Surveyor's Office in Belfast, salary according to experience.—Box 3235, "The Builder."

RIDER HUNT & PARTNERS have permanent situations vacant for SENIOR WORKERS UP and JUNIOR and SENIOR TAKERS-OFF. Considerable overtime and annual bonus.—Applicants should reply by letter with full details of experience to Bridge House, Queen Victoria-street, E.C.4.

EXPERIENCED WORKER-UP Required for permanent situation in London office. £700 p.a., plus considerable overtime and annual bonus.—Box 936, "The Builder."

WORKER-UP with at least four years' experience Required for permanent situation. Commencing salary £600, subject to annual rises of £60 and opportunities for measuring and taking-off after one year.—Box 937, "The Builder."

WORKER-UP/TAKER-OFF, with at least four years' technical experience, Required for permanent situation. Commencing salary £600 p.a., with overtime and bonus. First year to be spent entirely working-up, and after that considerable scope for measuring and taking-off. Annual rises.—Box 940, "The Builder."

AMBITIOUS young WORKER-UP, age 21-26, Required to commence as Worker-up for one year, and then excellent opportunities for measuring and taking-off. Salary £500—£600 p.a. according to experience; considerable overtime may be worked and an annual bonus will be paid. Annual rises of £60 for several years.—Box 942, "The Builder."

WORKERS-UP Required by Westminster Chartered Quantity Surveyors. Opportunity for gaining wide range of experience. Five-day week. L.V. Write in own handwriting, stating age, detailed experience, and salary required.—Box 3236, "The Builder."

JUNIOR WORKER-UP seeking change of environment could profitably contact London C.Q.S., who would be pleased to discuss ways and means of satisfying his requirements.—Box 913, "The Builder."

JUNIOR WORKER-UP Required in London Quantity Surveyor's office. Permanent position with opportunities for advancement.—Reply, stating age, experience, and salary required, Box 3237, "The Builder."

SENIOR WORKER-UP Required by City firm of Chartered Quantity Surveyors. Five-day week. Overtime available. Pension Scheme in operation.—Reply, giving full particulars of experience, and salary required to Box 3238, "The Builder."

EXPERIENCED WORKERS-UP Required for duties on large site near Rochester. This work will continue for about three years.—Please write, stating age, experience and salary required to Box 3239, "The Builder."

WORKERS-UP seeking progressive appointments in Chartered Quantity Surveyors' Holborn office, should write, giving full particulars.—Box 3240, "The Builder."

WORKER-UP Required for London firm of Chartered Quantity Surveyors (Holborn). Long term prospects with early opportunity for junior taking-off.—Box 3260, "The Builder."

WORKER-UP with minimum two years' experience required by LESLIE G. DIGHT, F.R.I.C.S., Datom House, 2, Harrison-street, Grays Inn-road, London, W.C.1. Minimum salary £400 per annum. Holiday arrangements respected.—Reply, stating age, experience, etc.

SENIOR WORKER-UP Required in medium-sized Chartered Quantity Surveyor's office (London) with at least 10 years' first-class London professional experience. Must be fully reliable and efficient and able to take charge of the working-up and increased costs sections. Salary £840 per annum, plus bonus.—Full details in handwriting of education, training and experience, to Box 3306, "The Builder."

ESTIMATING ENGINEER Required, preferably with experience in one of the following plants: Coal Preparation, Coke Ovens, Coal and Gas Building. Five-day week. Staff Pension scheme.—Apply THE COPPEE CO. (G.B.), Ltd., 140, Piccadilly, London, W.1.

SITE ENGINEERS

WILSON LOVATT & SONS LTD have several vacancies for SITE ENGINEERS for new large Contracts about to start. Experience necessary in setting out buildings and the carrying out of external services and site works. A good salary will be paid with living allowance for suitable men, and other terms at interview. Applications to Clarence-street, Wolverhampton.

CONSULTING Civil Engineers, Westminster, require ASSISTANT ENGINEERS and DRAUGHTSMEN, experienced in survey, design and detailing of road and drainage schemes. High salaries and good prospects. Write, stating age and qualifications, with full details of experience.—Box 3241, "The Builder."

REINFORCED CONCRETE STRUCTURAL ENGINEER Required by expanding London Contractors. To act at present as Site Manager on a Central London Contract. Salary according to experience.—Apply Box 3242, "The Builder."

CLERKS OF WORKS Required to supervise the erection of the following building contracts:—(a) Industrial Canteen and Welfare buildings at Corby, Northants; (b) New Secondary School at West Drayton, Middlesex. Appointment (a) will commence early in October, appointment (b) during November. Permanent staff positions will be considered for suitable men.—Apply, in writing, giving particulars of age and experience, to NORMAN AND DAWBARN, Architects and Consulting Engineers, 7, Portland-place, London, W.1.

CLERK OF WORKS Required for large contract City of London. Must have experience of London work. Salary by arrangement.—Phone GERrard 1857 for appointment.

CLERK OF WORKS. Applications are invited for the post of Clerk of Works to supervise the extension of the headquarters of the Royal Institute of British Architects. Previous experience in high quality construction and finishes essential.—Apply to PLAYNE AND LACEY, 19, Queen Anne's Gate, S.W.1, with copies of two recent testimonials.

BRUSSELS INTERNATIONAL EXHIBITION, 1958. CLERK OF WORKS Required to supervise construction of Government and Industrial Pavilions incorporating interesting latest technical developments and high standards of finish. Previous experience of large contracts essential and knowledge of French and working in metric system preferred. Duration of appointment beginning October 1956 to April 1958. Basic salary according to experience minimum £15 per week plus living allowance in Brussels.—Reply, in writing, with full details to Co-ordinating Architects, Howard V. Lobb & Partners 20, Gower-street, London, W.C.1.

ESTIMATOR Required for reinforced concrete light framed structures, hollow tile floors, etc. Five-day week. Pension scheme.—Apply in writing, giving brief details of experience and salary required to: THE HELICAL BAR & ENGINEERING COMPANY LTD., 82, Victoria-street, London, S.W.1.

CHIEF ESTIMATOR

required by major CIVIL ENGINEERING, REINFORCED CONCRETE and BUILDING CONTRACTORS—applications invited for this senior appointment in an organisation where the prospects for further advancement are appreciable.

The appointment entails the administration and control of an existing ESTIMATING department of ESTIMATORS and MEASURERS—the organising and preparation of tenders for the varied type of works associated with Civil Engineering Reinforced Concrete and Building Industry of varying values up to 2 million pounds—accustomed to the preparation of tenders on predetermined methods of construction and man and plant hour assessments—comprehensive knowledge of the contractual aspects of tender documents, contract law and legislation and accustomed to the negotiation of contracts.

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